BEFORE THE JHARKHAND STATE ELECTRICITY REGULATORY

COMMISSION, RANCHI

Case (Tariff) No. 10 of 2020

In the matter of:

Tata Power Company Limited

... Petitioner

-Versus-

Tata Steel Limited

Respondents

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Filed BY

Place: Ranchi

Date

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EFORE THE JHARKHAND STATE ELECTRICITY REGULATORY COMMISSION, RANCHI

CASE (Tariff) NO. 10 of 2020

IN THE MATTER OF:

Tata Power Company Limited

...Petitioner.

- Versus -

Tata Steel Limited

...Respondent

ADDITIONAL AFFIDAVIT

I, Abhay Kumar, aged 46 years, S/o Shri Subh Narayan Shrivastava, residing at Flat No. B-1/04, Silvercity Apartment, Sector-93, Noida - 201304, do hereby solemnly affirm and state as under:

1. I am working as the Head-Legal, with The Tata Power Company Limited, the Petitioner in the above matter, and am duly authorized and competent to swear and depose the present affidavit on behalf of Tata Power.

That the petition for approval of True Up of FY 2019-20 & APR 2020-21 along with MYT Petition & MYT Business Plan for FY 2021-22 to FY 2025-26 was filed on 1.12.2020 (Case (T) No. 20 of 2020 before this Hon'ble Commission.

3. That Hon'ble Jharkhand State Electricity Regulatory Commission (JSERC) has sought additional information in the aforesaid petition *vide* its Letter dated 28th January 2021. The petitioner herewith submits the additional information/clarification as sought in the accompanying appendix and annexures.



4. That I have perused the accompanying information and the facts stated therein are true and correct to the best of my knowledge based on the records of Tata Power and information received from the concerned officers of the Petitioner and that the legal submissions made therein are based upon information received by me and believed to be true and correct.

VERIFICATION

I, the Deponent above named, do hereby verify that the contents of this affidavit are true and correct, no part of it is false and nothing material has been concealed therefrom.

Verified at Noida on this __day of _____2021.

Place: Noida

Date:

Deponent



The point-wise replies to the queries raised in the letter No. 'JSERC/Case (Tariff) No. 10 of 2020/402' dated 28th January, 2020, w.r.t. the petition for True-up of FY 2019-20 along with Annual Performance Review of FY 2020-21 and MYT 2022-26 for Unit # 2 & 3 of Jojobera Power Plant by the Hon'ble Commission are presented below:

True-up for FY 2019-20:

Query 1

1. The Petitioner is required to submit the auditor certificate certifying the operational parameters for Unit-II & Unit-III for FY 2019-20.

Reply

- 2. Tata Power humbly submits that Statutory Auditor certifies only the financial data. For Operational data, the petitioner has relied upon following documents/certificates and such practice has been followed in the past as well.
 - (a) Plant Availability: For Plant Availability, it has relied upon the Monthly PAF Certificates issued by Tata Steel LDC. The PAF certificates are enclosed as Annexure P3 in the Main Petition for kind reference of the Hon'ble Commission.
 - (b) Monthly Generation and Auxiliary Power. For this, we have relied upon the monthly Generation Report which is duly signed by the representatives of Tata Steel, a long-term beneficiary & Tata Power. The generation report is enclosed hereto and marked as **ANNEXURE R1** for kind perusal of the Hon'ble Commission.
 - (c) Coal GCV: Tata Power has appointed a third party for sampling and GCV measurement of each rake. A sample copy of third-party certificate showing the GCV of the rake is being attached hereto as **ANNEXURE R2** for the kind reference of Hon'ble Commission. Based on such GCV daily, Monthly and Annual GCV is worked out considering quantity of the coal as weight.
 - (d) Transit Loss: For working out Transit loss of a particular rake, we take out the difference of the weight as per railway receipt (RR) and the weight as recorded at the Unloading Point inside the Premises of Tata Power. This exercise is carried out for each rake of a particular type of coal during the entire month and aggregated to arrive at monthly weighted average transit loss for that category of coal. Railway Receipt and Transaction Recorded at Plant Premises for a sample

- Rake and its transit loss computation is attached herewith as **ANNEXURE R3** (Colly) for kind the reference of Hon'ble Commission.
- (e) SHR: As stated above, GCV of each coal intake/rake is measured by a Third party /agency who is deployed at site by Tata power. Based on the certified GCV value and actual coal consumption, actual generation and actual LDO consumption for each unit, Tata power computes SHR. A computation sheet for SHR calculation is attached as **ANNEXURE R4** herewith for the kind reference of the Hon'ble Commission.

Query 2

3. The Petitioner has submitted availability certified by LDC-Tata Steel. The petitioner is required to provide the reason for not submitting the true copy certified by State LDC.

Reply:

- 4. It is humbly submitted that as per the Power Purchase Agreement (PPA) between Tata Power & Tata Steel Limited (Long Term Beneficiary/TSL), Tata Steel Load Dispatch Centre (TSLDC) which shall mean the Power Management Centre of the Tata Steel Limited is authorized to Monitor and Certify Plant Availability Factor of the Generating Units of Jojobera Power Plant of Tata Power.
- 5. The relevant excerpts of the said term of PPA have been reproduced below:

"Tata Steel Load Dispatch Centre or "TSLDC" shall mean the Power Management Centre of the Tata Steel Limited to discharge the following functions, viz:-

- (a) To ensure supply of reliable and quality power to all its consumers by taking following actions:
 - i. Decide generation level of various units of Tata Power generators from time to time in line with load of Jamshedpur Tata Steel System, for optimum dispatch of electricity and system stability.
 - ii. Monitor and control of operation in Jamshedpur Tata Steel System.
 - iii. Ensure reliable and quality power supply.
- (b) Monitor and Certify Plant Availability Factor of the Generating Units
- 6. Further, it will not be out of place to mention that the Hon'ble Commission has approved the Plant Availability Factor (PAF) in previous True-up filings based on the PAF Certificates issued by TSLDC only. Hence, in view of the above, Tata Power humbly requests the Hon'ble Commission to approve the PAF for FY 2019-20 as per PAF

Certificates duly approved by TSLDC which are enclosed as Annexure P3 in the Main Petition.

Ouerv 3

7. The Petitioner is required to clarify the value considered in the audited accounts toward the de-capitalised asset (both de-capitalised original project asset and decapitalised additional capitalisation) is book value or residual value. Further, the Petitioner is also required to provide the detail of assets de-capitalised along with its put-to-use date and depreciated value (%) till date.

Reply:

- 8. It is humbly submitted that the value considered towards de-capitalization is the book value/estimated book value. As elaborated in the Petition, assets whose original cost is available in the books of account, decapitalization of the same has been done as per said book value or an estimate of such book value.
- 9. In addition to above, Petitioner has also proposed for decapitalization of some of the replaced assets for which decapitalization has not been performed in books. This is mainly because such removed assets are being used in rotation for overhaul or kept as emergency spare to be used during breakdowns and have future economic value. However, in compliance to Hon'ble Commission observations in previous Tariff Order, such removed assets have been decapitalized for the purpose of Tariff computations without prejudice to Petitioner's rights on its stand in this regard.
- 10. In regard to second query, the details of assets decapitalized for the purpose of Tariff have been summarized in the Table below with put to use date and depreciated value (%) till date.

Particulars: (Item Name/Name of Scheme)	In Units	Asset Class	Date of Capitalization (Put to Use)	Depreciated Value (%)
536800 (UPS battery Banks)	2	Batteries	01-04-2000	10.0%
Switch gear Equipments	2	Switchgear, including cable connections	01-02-2001	14.6%
Vehicles				
Tata sumo SA+ series, JH-05- F6734	1,2,3,4,5	Vehicles	23-12-2003	10%
Tata sumo SA+ series-AC	1,2,3,4,5	Vehicles	31-03-2004	10%
Burner Panel Bends	2	P&M	01-02-2001	14.6%
2X 60 KVA UPS	2	Batteries	01-02-2001	10.0%
Up gradation of Unit 2 Turbine Supervisory System	2	P&M	01-02-2001	14.6%

Up Gradation of Furnace Safeguard & Supervisory System and BOP Control System	3	P&M	01-02-2002	18.5%
Replacement of Dead Tank CT with Live Tank CT	1,2,3,4,5	P&M	01-02-2002	18.5%
IT Assets *	1,2,3,4,5	IT Equipments		29.49%
Total				

- * Further detail of IT Assets and computation of depreciated value for above items is annexed herewith in excel format and marked as **ANNEXURE R5** for kind perusal of the Hon'ble Commission.
- 11. Moreover, it is submitted that the summary of decapitalizations is also provided in Table 19 and in Table 20 of the Petition respectively. Table 19 provides decapitalization details as per Books whereas Table 20 provides for decapitalization not performed in Books. Further, Table 21 provides asset class-wise total decapitalization for Unit 2 and Unit 3 respectively. The same may kindly be referred to while deciding decapitalizations for FY 2019-20.

Ouerv 4

12. The Petitioner should submit actual income tax paid along with the documentary evidence for FY 2019-20.

Reply:

- 13. The Petitioner hereby submits the actual tax has been paid under MAT provisions at an effective rate of 17.472% (i.e., 58323651/333812109) for FY 2019-20, wherein Rs. 58323651 is Total tax, interest and fee payable whereas Rs. 333812109 is the Book Profit under MAT.
- 14. The above numbers can be seen in the ITR acknowledgment which is enclosed hereto and marked as **ANNEXURE R6** for kind perusal of the Hon'ble Commission.

Ouerv 5

15. It is observed that the Petitioner proposes different methodology for calculation of depreciation when compared to its earlier Petition and method approved by the

Commission in its earlier Orders. The Petitioner is required to provide the justification for the same.

Reply:

- 16. It is humbly submitted that since cumulative depreciation on Gross Fixed Asset, i.e., (Original Cost and Additional Capitalisation) has crossed 70%, the Petitioner, therefore, in terms of Regulation 7.32 of the Generation Tariff Regulations 2015 has computed the depreciation on the aggregate asset by dividing the balance depreciable value by balance useful life of the project. The useful life of the Project is 25 years as per Regulation 2.1(58) and 2.1(27) of GTR 2015. The Petitioner further in section D.5.3 has in detail provided the reasons and computation of the depreciation for 2019-20. Further, the interpretation of Hon'ble CERC on similar Regulations regarding spreading of balance depreciable value as contained in CERC Tariff Regulations 2014 was also elaborated upon with excerpts from CERC Tariff Orders illustrating the computation of depreciation by Hon'ble CERC in terms of above Regulations which is also the case of the Petitioner in the instant Petition. It is, therefore, humbly requested to the Hon'ble Commission to kindly refer the above section D.5.3 for detailed justification and the same is not repeated hereto for sake of brevity.
- 17. Further, on the query that the proposed methodology is different from previous Petition, Tata Power most humbly submits that the proposed methodology/Computation of depreciation is not different from earlier Petition. In fact in the Petition for True-up of 2016-17 and 2017-18, the Petitioner on similar lines had proposed for the recovery of balance depreciable value as on 31.03.2016 within the balance PPA life. However, the above proposal which was in deviation to the Regulations (since we were seeking spreading within the PPA life of 30years instead of 25 years) was not considered by the Hon'ble Commission with following observations as given in the Mid Term Review Order dated 14.02.2020. The Petitioner has, therefore, now proposed spreading of depreciation in balance useful life out of 25 years.

[&]quot;5.98 The Commission is of the view that to substantiate its proposal for change in the methodology for calculation of depreciation, the Petitioner was required to carry out detail study to ascertain the residual life of asset. At present, the Petitioner proposal for accepting the different methodology for calculation of depreciation without any documentary evidence demonstrate only its eagerness to recover the expenditure incurred. Hence, for carrying out the True-up for FY 2017-18, the Commission has approved the deprecation as per rate defined in JSERC Generation Tariff Regulations, 2015. However, the Commission shall look into the issue while framing the tariff

regulations for the third control period. The Petitioner is at liberty to submit its proposal at the time of finalising the tariff regulations for Commission's consideration."

18. In light of the above observations of the Hon'ble Commission and considering the extant Regulations, the Petitioner proposed the corrected depreciation for 2018-19 in the Petition for true-up of 2018-19 (Case (Tariff No. 09 of 2019)) for kind consideration of the Hon'ble Commission. However, Hon'ble Commission, while disposing the above Case (Tariff) No. 09 of 2019, has kept the above computations proposed by the Petitioner in abeyance with following observations:

"6.66 However, the Petitioner during Public Hearing dated August 07, 2020 and through additional submission dated August 14, 2020 revised the calculation of depreciation and suggested that the remaining depreciable amount of both Original Capital Cost and additional capitalization be equally spread on Balance Useful Life of the Project considering 25 years of useful life as the cumulative depreciation till 2017-18 has crossed 70% for both the Units.

6.67 The Commission observes that the Petitioner has revised their deprecation calculation during the Public Hearing scheduled on August 07, 2020 and submitted the detail to the Commission on August 14, 2020. The Commission is of the view that any material change impacting tariff need to be submitted well in advance before the Commission as well as before other stakeholders for public scrutiny. Hence, the Commission at this stage has not gone into the merits of the revised approach and approves the deprecation as per the approach adopted in its earlier Tariff Orders...."

- 19. Therefore, since the proposed corrected methodology is yet to be disposed of by the Hon'ble Commission on its merit, the Petitioner followed the above methodology for computation of depreciation for 2019-20 and subsequent years as presented in the Petition. The Hon'ble Commission may further appreciate that the proposed methodology is not different and is completely in accordance with the treatment given by Hon'ble Commission for spreading of balance depreciable value on similar Regulations as detailed in the section D.5.3 of the Petition.
- 20. It is respectfully prayed before this Hon'ble Commission to kindly approve the proposed depreciation for 2019-20 and subsequent years as presented in the Petition. Such approach shall be in consonance with approach settled by Hon'ble CERC and in accordance with true essence of Regulations 7.32 read with other applicable Regulations as per GTR 2015.

Ouerv 6

21. The Petitioner is required to provide comparison of each component of O&M Expenses claimed by it vis-à-vis actual booked in the audited accounts for FY 2019-

20. Further, the Petitioner is required to provide the detail of activities carried out under A&G Expenses & R&M Expenses.

Reply:

22. The comparison of each component of O&M expenses for Unit 2 & 3, claimed vis-à-vis actual as per Audited Accounts have been presented in the Table below for kind perusal of the Hon'ble Commission. The O&M Expenses have been categorized under Component A (Expenses which are allowed on normative basis) and Component B (Expenses which are allowed on actual basis) as per the extant Regulations and methodology being followed in the previous Order. Further, expenses approved in the APR Order have also been presented side by side to the figures claimed by the Petitioner for true-up of FY 2019-20.

Rs. Crore

Hnita > Hnit 2 Hnit 2						
Units →		Unit 2	ı		Unit 3	
Particulars↓	Approv ed in APR Order	Propos ed in True- Up Petitio n	As per Audite d Accou nts	Approv ed in APR Order	Propos ed in True- Up Petitio n	As per Audite d Accou nts
A: O&M Allowed on						
Normative Basis						
Employee Expenses excluding						
TL	7.88	7.88	7.25	7.88	7.88	7.25
R&M Expenses	20.46	20.46	12.66	14.61	14.61	12.85
HO & SS Expense	10.76	10.76	10.12	9.43	9.43	10.14
Other A&G Expense	5.14	5.14	6.00	4.70	4.70	6.06
B: O&M Allowed on Actual						
basis						
Terminal Liabilities	0.25	0.92	0.92	0.25	0.92	0.92
Ash Disposal Expenses	3.63	4.15	4.15	3.71	4.06	4.06
Raw Water Expenses	2.55	4.40	4.40	2.61	4.28	4.28
Application Fees & Publication						
Expenses	0.31	0.28	0.28	0.3	0.28	0.28
Capital Spares	0.70	2.53	2.53	0.7	2.59	2.59
Total O&M Expenses (A+B)	51.68	56.52	48.32	44.19	48.75	48.44

23. It is further submitted that Repair and Maintenance expenses are mainly expenses towards routine and annual maintenance of the machines which include both services and spares cost. The expenses in accounts have been booked under two Ledgers, namely consumables and services cost towards various activities carried out during the year 2019-20. The breakup of the Administrative and General expense for 2019-20 has been extracted and annexed hereto as **ANNEXURE R7** alongwith brief details of expenses

booked under each head for the kind perusal of the Hon'ble Commission whereas the activities which are carried out under the Repair and Maintenance is detailed in Annexure R21 of the instant submission and, hence, it is requested to kindly refer the same.

Ouerv 7

24. There is large variation in O&M Expenses between Unit-II and Unit-III. The Petitioner is required to substantiate the same considering the fact that both the Units are similar in size, at same location and of same vintage.

Reply:

25. It is submitted that significant variation in proposed 0 & M Expenses between Unit 2 & 3 is mainly due to difference in normative Repair and Maintenance ('R & M') Expenses as shown in column (1-2) in the Table below.

(Rs. Crore)

Units →	Unit 2	Unit 3		Unit 2	Unit 3	
Particulars ↓	Proposed in True- Up Petition		True- Up Diff Audited		ited	Diff
A: O&M Allowed on Normative Basis	1	2	1 - 2	3	4	3 - 4
Employee Expenses excluding TL	7.88	7.88	0	7.25	7.25	0
R&M Expenses	20.46	14.61	5.85	12.66	12.85	-0.19
HO & SS Expense	10.76	9.43	1.33	10.12	10.14	-0.02
Other A&G Expense	5.14	4.70	0.44	6.00	6.06	-0.06
B: O&M Allowed on Actual basis						
Terminal Liabilities	0.92	0.92	0.00	0.92	0.92	0.00
Ash Disposal Expenses	4.15	4.06	0.09	4.15	4.06	0.09
Raw Water Expenses	4.40	4.28	0.13	4.40	4.28	0.13
Application Fees & Publication Expenses	0.28	0.28	0.00	0.28	0.28	0.00
Capital Spares	2.53	2.59	-0.07	2.53	2.59	-0.07
Total O&M Expenses (A+B)	56.52	48.75	7.77	48.32	48.44	-0.12

- 26. Tata Power hereby submits that normally Annual Shutdown ('ASD') of the Units 2&3 are taken in alternate years for the purpose of major overhauling/annual maintenance. As a result, R&M expenditure of a unit is usually higher in the year in which ASD is scheduled barring exceptional case if any and this basically creates the difference between the R&M expenses of Unit 2 and Unit 3.
- 27. However, as evident from the above Table, the difference between the actual R&M expenses of Unit 2 and Unit 3 is negligible. This is primarily because of deferment of Annual Shutdown of one of the Unit to next year in view of the expected commissioning

of FGD System for the Unit in FY 2020-21. Moreover, it is humbly submitted that such variation in R & M expenses in Unit # 2 & 3 may occur due to various reasons, viz, shutdown schedule, any major repair activity in any unit executed as & when required in a financial year and hence R&M expenditure may not follow any consistent trend and comparing the same may not be correct.

Query 8

28. The Petitioner is required to provide the detailed purpose and use of capital spares as claimed in the Petition for FY 2019-20 for both the Units. Reply:

29. It is humbly submitted that against the projection of Rs. 0.70 Crore each in Unit 2&3 for FY 2019-20, the actual cost incurred towards capital spares is Rs. 2.53 Crore in Unit 2 and Rs. 2.59 Crore in Unit 3. Such variation is mainly on account of receipt of part of the Capital Spares in 2019-20 which was earlier projected for delivery in 2020-21 considering the then prevailing circumstances. It is humbly reiterated that such variations in supply schedule was beyond the anticipation of the Petitioner and the detailed justification has been provided in Annexure P19 of the Petition and, hence, the same is not repeated herein for the sake of brevity. It is, therefore, humbly requested before this Hon'ble Commission to kindly refer the Annexure P19 of the Petition for detailed justification. It may be kindly noted that claimed cost towards capital spares is well within the approved figures. Summary of the Capital spares claimed is presented in the Table below for ready reference:

Proposed C	Proposed Capital Spares - Unit 2 (In Rs. Crore)							
Particulars	Approve d [Value] in MYT Order	Cumulati ve Claim till 2018- 19	Proposed Now		1 ain			
	FY 17- 21		FY 2019 -20	FY 2020 -21	FY 2019-20	FY 2020 -21		
Turbine and Generator Bearing sets	1.00		0.21	0.79		1.00		
Coal Mill Gear Box	1.00		0.83	0.17		1.00		
Turbine Stop & Control Valve Actuator	1.00		0.93	0.07		1.00		
Procurement of Critical Spares for Turbine and DCS Cards	1.40	0.64	0.56	0.14	0.70			
Total Capital Spares	4.40	0.64	2.53	1.17	0.70	3.00		

Proposed Capital Spares - Unit 3 (In Rs. Crore)							
Particulars	Approve d [Value] in MYT Order	Cumulativ e Claim till 2018- 19	Proposed Now		Pha Appro MTR		
	FY 17- 21		FY 2019 -20	FY 2020 -21	FY 2019 -20	FY 2020 -21	
Turbine and Generator Bearing sets	1.00		0.21	0.79		1.00	
Coal Mill Gear Box	1.00		0.83	0.17		1.00	
Turbine Stop & Control Valve Actuator	1.00		0.88	0.12		1.00	
Procurement of Critical Spares for Turbine and DCS Cards	1.40	0.69	0.68	0.02	0.70		
Total Capital Spares	4.40	0.69	2.59	1.11	0.70	3.00	

30. The purpose of each of the above capital spare is enclosed in **ANNEXURE R8** for kind perusal of the Hon'ble Commission.

Ouerv 9

- 31. It is observed that the Normative Specific Oil Consumption approved for TPCL for the Control Period is 0.50 mL/kWh, whereas the Petitioner has claimed the same as 1.00 mL/kWh. The Petitioner should submit necessary justification for the same. Reply:
- 32. It is humbly submitted that the Tata Power has claimed the Normative Specific Oil Consumption (S.O.C) as per Regulation 8.4 of the JSERC Generation Tariff Regulations 2015 which provide for 1 mL/kWh.
- 33. However, it is submitted that while disposing of the Multi-Year Tariff ('MYT') Petition for 2nd Control Period i.e. FY 2017-21, the Hon'ble Commission has approved 0.5 mL/kWh in MYT Order for Unit # 2 & 3 of Jojobera Power Plant. Tata Power had sought for a review of such revision in Norms for S.O.C. and filed a Review petition bearing Case No. 06 of 2018. On 9th January 2019, the Hon'ble Commission, while disposing of the above Review Petition has not allowed the prayer of Tata Power for consideration of Normative S.O.C. as per Regulation 8.4 of the JSERC Generation Tariff Regulations 2015. Further to the Review Order, Tata Power has filed an appeal before the Hon'ble APTEL vide Appeal No. 274 of 2019 for allowance of Normative S.O.C at 1 mL/kWh as per Regulation 8.4 of the JSERC Generation Tariff Regulations 2015 notified for 2nd Control Period (i.e. from FY

2016-17 to FY 2020-21) which is currently pending before Hon'ble Tribunal for adjudication.

Ouerv 10

34. It is observed that coal is sourced from different coal sources having different GCV's and landed costs. The Petitioner is required to provide the justification for deviation from the approved cost and purchase plan as per the earlier Order approved by the Commission. Further, the Commission observed that the energy charge claimed by the Petitioner is higher when compared to the approved value. The Petitioner is required to justify the same with reason for higher energy charge. Further, the Petitioner is also required to provide proper justification why such deviation is not brought to the notice of the Commission.

Reply:

- 35. It is humbly submitted that Tata Power has provided an appropriate justification for deviation from the approved coal procurement plan in Section D.2 of the main Petition. Also, vide its report dated 30.06.2020 in compliance to earlier directive passed in previous true-up Orders had already apprised Hon'ble Commission about the actual coal mix, deviation from the approved plan and reasons for such deviations which were beyond the Control of Tata Power. However, quantum of deviation from approved fuel mix and reasons for the same are provided below for kind consideration of the Hon'ble Commission:
- 36. It is submitted that the Petitioner considering the situation prevailing then and in anticipation of commencement of supply under SHAKTI Coal from the month of February 2020 had submitted revised fuel mix for FY 2019-20 with detailed justifications in its MTR Petition and APR Petition for FY 2019-20 filed in December 2019. In the revised estimate, Tata Power had considered the actual coal consumption up to month of November-19 and considered actual Coal mix for April -19 to November -19 as projection for the month of December-19 and January-20 and proposed a revised coal mix meeting the 61% requirement through Middling Coal and Balance 39% through SHAKTI Coal for the month of February-20 and March-20. The Hon'ble Commission after due prudence check approved the proposed Coal Mix in MTR Order dated 14.02.2020 and in the APR Order for 2019-20 dated 09.09.2020.

37. The actual coal mix for 2019-20 for Unit 2 and 3 alogwith deviation from the approved mix is presented in the Table below. Coal sourced from collieries of west Bokaro is shown together for ease of reference and comparison.

Particulars	Apri-19 to Marc	h 20 Unit 2	Apri-19 to March 20 Unit 3		
Coal Mix	Approved	Actual	Approved	Actual	
Coal from TSL WB Collieries*	72.63%	65.49%	73.57%	66.85%	
SHAKTI	7.01%	1.45%	6.84%	1.59%	
E-auction	3.86%	16.17%	3.32%	13.95%	
Washery	4.84%	6.70%	4.85%	7.08%	
Imported	11.67%	10.19%	11.42%	10.53%	
Total	100.00%	100.00%	100.00%	100.00%	

As can be seen from the above, one of the primary reasons for deviation in the coal mix was lower supply of the SHAKTI Coal since supply of SHAKTI Coal could commence from only one of the subsidiaries viz. ECL and, in spite of taking all diligent steps, supply from MCL and CCL could not start for reasons beyond the control of Tata Power as elaborated in following paragraphs. The Petitioner, therefore, had to depend on other supplies particularly e-Auction Coal and other available stocks.

- 38. At the time of filing the APR Petition for FY 2019-20 in month of December 2019, Tata Power in view of the progress made then, estimated that all the mandatory requirements of signing of Fuel Supply Agreement (FSA) and Tripartite Agreement for Coal Quality Monitoring at Loading end as required under FSA were expected to be completed by January'2020 and, therefore, full supply (prorated for last two months) of SHAKTI Coal was projected in the month February and March 2020 for meeting 39% of the coal requirement for Unit 2 and Unit 3 for those months. However, actual supply could commence from only from one of the subsidiaries viz. ECL and, supply from MCL and CCL could not start in spite of taking all diligent steps and for reasons beyond the control of Tata Power resulting into minor variations in the approved Coal Mix.
- 39. It may kindly be noted that LoI dated **12.07.2019**, **16.07.2019** and **17.07.2019** have been received on **13.07.2019**, **17.07.2019** and **18.07.2019** from ECL, MCL and CCL respectively. Thereafter, getting approval of the Hon'ble Commission on the amended PPA on 06.09.2019 for incorporating discount methodology for coal under Round 2 of Shakti Scheme, amended PPA was executed on 07.09.2019 between the parties and the same was submitted to CCL, ECL and MCL immediately on 09.09.2019 for execution of FSAs as required under clause 3.6.8.1 of the Scheme Document and further requesting them to

expedite on signing of FSA. Copy of the cover letters are enclosed as **ANNEXURE R9** for kind perusal of the Hon'ble Commission. Relevant Clause under scheme document is extracted below for ready reference.

"3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within 60 (sixty) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and

3.6.8.2 Submission of the documents specified in Annexure X, as applicable, to the relevant Subsidiary"

- 40. While FSA with ECL got executed on 09.10.2019, the FSAs with CCL and MCL got executed on 03.01.2020 and 10.02.2020 only after their internal approvals and completion of necessary verifications of the documents by these subsidiaries of Coal India Limited (CIL), which took some time. It is understood that since verifications and submissions of documents was taking time for some of the successful provisional bidders, CIL as per clause 3.6.8 of the Scheme document has amended the timelines for submission of the required documents on 14.09.2019, 25.10.2019, 18.12.2019, 10.02.2020 and 23.04.2020 vide various corrigenda revising the 60 days period in the Scheme Document as quoted above to 105 days, 150 days, 195 days, 240 days and 300 days respectively. True-Copies of the Corrigenda as issued by Coal India Limited are enclosed as **ANNEXURE R10** respectively for kind reference of the Hon'ble Commission.
- 41. Further, as per FSA, for coal quality monitoring at loading end, it was required to have appointment of Third-Party Agency (TPA) and a Tripartite Agreement between TPA, seller and purchaser to facilitate the scope of work as envisaged in the FSA. Para Relevant for requirement and appointment of TPA is extracted below:
 - "...5.6.2 Detail modalities for collection, handling, storage, preparation and analysis of samples by Third Party shall be as per Schedule IV..."

"...Schedule IV

Appointment of the Third Party Agency

The purchaser may select a Third Party Agency ("**TPA**") to conduct the sampling and analysis from the list of third parties empaneled by CIL from time to time. At present following agencies are empaneled:

- (a) Central Institute of Mining and Fuel Research ("CIMFR")
- (b) Quality Council of India ("QCI")
- (c) Indian Institute of Technology ("Indian School of Mines")....."
- 42. In view of the above requirements, Tata Power indicated its consent to ECL on 10.10.2019, CCL on 04.01.2020 and MCL on 30.01.2020. While tripartite agreement for ECL was signed on 16.10.2019, tripartite agreement for CCL and MCL got executed on 28.02.2020 and 17.03.2020 after regular follow-ups. Copies of letters dated 10.10.2019, 04.01.2020, 30.01.2020 and the email communication/intimation dated 26.02.2020 and 16.03.2020 for signing of the Tripartite agreement for CCL and MCL are enclosed as **ANNEXURE R11** (Colly) for kind perusal of the Hon'ble Commission.
- 43. In view of foregoing, it is humbly submitted that it took some time to execute FSAs and Tripartite agreement, but Tata Power has acted diligently and took all efforts to expedite the above execution without any delay. However, time taken by CIL and subsidiaries for verification and signing is procedural requirement and same was not within the control of the Petitioner and, hence, it had to depend upon the other supplies particularly forward e-auction coals and available stocks for these months.
- 44. After signing of the tripartite agreement, Tata Power in pursuit to have allocation for the month of March submitted its request to CCL after making required payments on 26.02.2020, however, no supply was made available by CCL under above request up to 23.03.2020. However, understanding the already lower demand by Distribution Licensee to be further suppressed due to the restrictions imposed by Central and State governments due to COVID-19 and noting high stock availability and the limitations of Manpower, Tata Power was constrained to inform subsidiaries of coal companies not to supply coal for Tata Power Jojobera Power Plants. (Copies of the above referred Letters are enclosed as **ANNEXURE R12 (Colly)** for kind perusal of the Hon'ble Commission.
- 45. In addition to above, the Petitioner has claimed actual transit loss in case of Middling Coal and 2-Product +Tailing Coal (by Rake) which are washed category coal in terms of Hon'ble Tribunal Judgment dated 14.11.2013 in Appeal No 147 of 2012 and Regulation 16.4 of GTR 2015. The actual Transit Loss in Middling Coal and 2-Product +Tailing Coal (by Rake) is 2.79% & 4.85% respectively for FY 2019-20 which is beyond the control of Tata Power and, hence, for the purpose of computation of Energy Charges it has considered the actual transit loss in case of Middling Coal and 2-Product Coal (by Rake) and normative transit loss in other categories of coal as provided in Regulation 8.21 of the GTR 2015. Also, as submitted above, Normative Specific Fuel Oil Consumption has been considered as per

- Regulation 8.4 of the JSERC Generation Tariff Regulations 2015, i.e., 1 ml/kWh instead of 0.5ml/kWh as considered by Hon'ble Commission in the MYT Order.
- 46. Deviation in the proposed energy charge rate (ECR) for 2019-20 compared to ECR approved in the APR Order for 2019-20 and effect of each factor as mentioned above on ECR have been demonstrated in the Table below for kind reference of the Hon'ble Commission: Computation of deviations in ECR alonwith impact on ECR on account of reason as presented in the Table below is annexed herewith and marked as **ANNEXURE**R13 for kind reference of the Hon'ble Commission.

Particulars	UoM	Unit 2	Unit 3
ECR PROPOSED		3.357	3.377
ECR APPROVED		3.239	3.251
ECR _{PROPOSED-APROVED}	Rs/kWh	0.118	0.125
i - Variation due to Change in Price/GCV of Coal		0.008	0.006
ii - Variation due to Change in Fuel Mix of Coal		0.043	0.050
iii - Variation due to transit loss		0.045	0.047
iv- Variation due to claim of sp. Fuel oil consumption of 1 ml/kWh		0.022	0.022

- 47. As can be seen from the above Table, the overall increase in the ECR for FY 2019-20 compared to approved is 11.8 Paise/kWh in Unit 2 and by 12.5 Paise/kWh in Unit 3 respectively. As illustrated above, it is mainly due to (i) variations in GCV and price of approved coal impacting ECR by 0.8 Paise/kWh in Unit 2 and 0.6 Paise/kWh in Unit 3 which is an ongoing phenomenon and uncontrollable for any Generators. (ii) Due to change in fuel mix impacting ECR by 4.3 Paise/kWh in Unit 2 and 5.0 Paise/kWh in Unit 3 owing to delay in commencement of SHAKTI Coal for reasons beyond the control of Tata Power as stated above. (ii) Due to higher transit loss in washed category of coal impacting ECR by 4.5 Paise/kWh in Unit 2 and 4.7 Paise/kWh in Unit 3 which as discussed above is because of uncontrollable factors and (iv) Due to claim of Normative S.O.C of 1 ml/kWh as per Regulation impacting ECR by 2.2 Paise/kWh in each Unit 2 and Unit 3.
- 48. In view of above submission, the Petitioner most humbly submits that Tata Power has acted prudently while seeking commencement of supply under SHAKTI allocations to comply with its obligation as proposed earlier in the APR filings and considering the requirements of the Distribution Licensee and, thus, most humbly prays before this Hon'ble Commission to kindly approved the proposed fuel mix and proposed ECR for the FY 2019-20 for Unit 2 and Unit 3.

APR for FY 2020-21:

Ouery 11

49. There is large variation in O&M Expenses between Unit-II (Rs. 57.07 Crore) and Unit-III (Rs. 48.48 Crore). The Petitioner is required to substantiate the same considering the facts that both the Units are similar in size, at same location and of same vintage.

Reply:

50. It is submitted that significant variation in actual O & M Expenses between Unit 2 & 3 is primarily because of difference in Normative Repair and Maintenance ('R & M') Expenses and the Normative Expenses towards HO & SS Expenses as shown in the following table:

O&M Expenses for FY 2020-21 - Unit 2 &	rore)	Diff	
Particulars	Unit 2	Unit 3	Dijj
Staff Expenses	8.70	8.70	0.00
Employee Expenses w/o Terminal Liabilities	8.45	8.45	0.00
Terminal Liabilities	0.25	0.25	0.00
R&M Expenses	21.94	15.66	6.28
A&G Expenses	22.37	20.34	2.03
Ash Disposal Expenses	5.00	4.87	0.13
HO & SS Expense	11.53	10.11	1.42
Other A&G Expense	5.51	5.04	0.47
Application Fees & Publication Expenses	0.33	0.32	0.01
Raw Water Expenses	2.33	2.12	0.21
Capital Spares	1.17	1.11	0.07
Total O&M Expenses	56.51	47.92	8.59

51. As stated earlier, variation in R & M expenses in Unit # 2 & 3 may occur due to various reasons, viz, shutdown schedule, any major repair activity in any unit executed as & when required in a financial year and hence R&M expenditure may not follow any consistent trend and comparing the same may not be correct. In particular, in case of Unit 2&3 annual shutdown has been generally taken in alternate years and, hence, R&M expenses in the Unit having annual shutdown in a particular year are higher than the other Unit.

Ouerv 12

52. It is observed that coal is sourced from different coal sources having different GCV's and landed costs. The Petitioner is required to provide the justification for the deviation from the approved cost and purchase plan as per the earlier Order approved by the Commission.

Reply

- 53. It is submitted that Tata Power has provided an appropriate justification for deviation from the approved coal procurement plan in its APR FY 2020-21 Petition under Section E.2 filed before the Hon'ble Commission on 1st January 2021. Tata Power, during it's submission of Compliance of Directives for Q1&Q2 of FY 2020-21 dated 30.09.2020 & 04.12.2020, had already informed Hon'ble Commission about the deviation of actual coal consumption plan than approved. Reasons for deviation from approved fuel mix are reproduced below for ready reference.
- 54. It is submitted that in the Additional Affidavit dated 26.12.2019 to MTR Petition, Tata Power proposed Coal Mix considering lower PLF of about 70% each for Unit 2 and Unit 3 in wake of likely outage required for installation and commissioning of FGD System for Jojobera Unit 2 & 3 both in FY 2020-21. While projecting coal mix, full quantum of coal allocated under SHAKTI scheme was considered and balance was envisaged to be met through Middling Coal from collieries of West Bokaro. However, while deciding the MTR Petition, Hon'ble Commission did not consider the proposed Additional Capitalization for the FGD System and consequently revised the PLF to the level upwards to what was approved in the MYT Order dated 19.02.2018 for FY 2020-21, i.e., 79.05% for Unit 2 and 85% for Unit 3. This required corresponding increase in Middling Coal as Shakti coal was already exhausted and, hence, change in fuel mix. However, while approving the provisional energy charge rate and energy charges for FY 2020-21, the Hon'ble Commission considered the coal mix as proposed in the petition. This implies that with proposed Coal mix at higher PLF, coal quantity required to be sourced from SHAKTI allocation would go beyond the allocated quantum which is not possible and, hence, revised coal mix needs to be computed in such a manner that Coal under the SHAKTI Scheme remains maximum upto the allocated quantity, subject to its availability, and balance requirement may be met through middling coal.
- 55. In view of the above, coal mix proposed in the MTR Petition, approved in the MTR Order and proposed revised coal mix for Unit 2 and Unit 3 for FY 2020-21 is summarized in the Table below for kind perusal and consideration of the Hon'ble Commission. ECR as per revised fuel mix has been worked out for the purpose of correct comparison between the actual/projection vis-à-vis initial Coal Plan.

Proposed Revised Fuel Mix of MTR Order for Unit # 2

Unit 2		April'20 to March'21					
Туре	Proposed in I	Petition	Approved	Proposed correction in Coal Quantum and Mix as approved in MTR Order			
Турс	Total Coal Quantum (a+b)	Coal Mix Proposed in the Petition	Coal Mix Approved	Coal Quantum	Proposed Revised Fuel Mix		
Col->	1	2	3	4	5		
Middling	273700	54.31%	54.30%	330433	58.93%		
MCL [Shakti 2]	92157	18.29%	18.29%	92157	16.44%		
CCL [Shakti 2]	95728	18.99%	19.00%	95728	17.07%		
ECL [Shakti 2]	42408	8.41%	8.42%	42408	7.56%		
Total	503993	100.00%	100.00%	560726	100.00%		

Proposed Revised Fuel Mix of MTR Order for Unit #3

Unit 3		Ap	oril'20 to March	'21	
Туре	Proposed in I	Petition	Approved	Proposed correction in Coal Quantum and Mix as approved in MTR Order	
Турс	Total Coal	Coal Mix	Coal Mix	Coal	Proposed
	Quantum	Proposed in	Approved	Quantum	Revised Fuel
	(a+b)	the Petition	прргочец	Quantum	Mix
Col->	1	2	3	4	5
Middling	275126	54.44%	54.37%	371666	61.74%
MCL [Shakti 2]	92157	18.23%	18.26%	92157	15.31%
CCL [Shakti 2]	95728	18.94%	18.97%	95728	15.90%
ECL [Shakti 2]	42408	8.39%	8.40%	42408	7.05%
Total	505419	100.00%	100.00%	601959	100.00%

56. From the above Table, it can be seen that in both the Tables that in column No. 1 and in Column No 4 the quantity shown against MCL, CCL and ECL Shakti Round 2 Coal is the maximum available quantity after netting off normative transit loss and accordingly the balance quantity has been shown under Middling Coal and Coal mix was worked out at

proposed and approved PLF. However, Hon'ble Commission has relied upon the proposed coal mix which was worked out at lower PLF considering the maximum quantity to be supplied under SHAKTI Round 2 coal and the same would not be applicable at higher PLF. It needs to be revised since any increase in PLF was required to be met through Middling/alternative Coal only as maximum quantity under SHAKTI has already been accounted for. Therefore, in our humble view, the approved coal mix would have been equal to mix as shown in column 5 in the above Table and the same has been considered to analyze the variations in actual/projection of coal mix for FY 2020-21 in place of that approved in MTR Order.

- 57. With respect to actual/projection of coal mix for 2020-21, it is submitted that the same has been computed considering actual coal consumption up to the month of October'20 and projected coal consumption for the remaining months. Projected coal requirements have been calculated considering the projected generation during these months, coal supply from existing sources and fresh tie-up under SHAKTI Round 3, the terms and conditions of FSAs and optimum coal mix to optimize the Energy Charges for FY 2020-21. As per the terms and conditions of FSAs pertaining to SHAKTI Coal, Penalty is applicable in case total offtake is below 75% of the Annual Contracted Quantity (ACQ) and incentive is required to be paid in case offtake is more than 90% of the ACQ. Accordingly, taking above into account SHAKTI Coals viz, MCL, CCL and ECL under Round 2 and CCL under Round 3 have been considered with maximum as 90% of the Monthly Coal Allocations. The balance coal requirements for the month is met through Middling Coal. However, in case the when the monthly coal requirement is lower, then the coal requirement is met through available coal keeping cost into consideration. However, these projections shall depend upon the availability of coal, rakes and other unforeseen situations which are beyond the control of the Petitioner and, hence, the Petitioner shall inform Hon'ble Commission about the variations and shall present the overall variations during the trueup exercise for kind consideration of the Hon'ble Commission.
- 58. With regard to actual coal consumption from April to October'20, it is submitted that as elaborated in true-up sections, because of following reasons (i) lower demand by Distribution Licensee, (ii) Restrictions imposed by Central and State governments due to COVID-19, (iii) high stock availability and (iv) limitations of Manpower, Tata Power was constrained to inform subsidiaries of coal companies not to supply coal for Tata Power Jojobera Power Plants on 23.03.2020 (Copy of the Letters is already enclosed as *ANNEXURE R12*). Due to similar situation in month of April and May'20, deferment of coal supply under SHAKTI allocations was further requested to Coal Companies for these months. Copies of the Letters are enclosed as **ANNEXURE R14** for kind perusal of Hon'ble

Commission. In view of above constraints, Tata Power had to mainly rely upon already available coal stocks of 2019-20 mainly Middling, Tailing, Reject, 2 Product and E-auction coals initially. Subsequently, coal received under SHAKTI allocations, earlier allocated e-auction coal from ECL, Middling coal along with existing coals stocks have been used till October'20 for meeting the coal requirements. Report on Fuel Mix uptill June'20 was also submitted to Hon'ble Commission on 30.09.2020 and same is enclosed as Annexure P23. It is requested before this Hon'ble Commission to kindly refer the same.

- 59. It is further submitted that Tata Power participated in SHAKTI Round 3 auction held on 11.05.2020 and was successfully awarded a quantum of 5,77,100 Tons provisionally from CCL at a levelized Discount of 7 paise per unit in tariff for units generated from such coal. The FSA got signed on 05.10.2020 between Tata Power and CCL whereas the tripartite agreement with third party agency, seller and buyer for coal quality monitoring was executed on 19th October 2020. Accordingly, allocation under CCL Round 3 has also been considered from month of November in the manner as explained in the above paragraphs. With commencement of such supply, the benefits of economical coal including discount of 7 paise per unit as per SHAKTI scheme has also been considered while working out energy charges for 2020-21.
- 60. It is re-iterated that deviations as summarized in the Table below are due to factors as explained in above paragraphs and are beyond the control of Tata Power and, thus, the Petitioner requests this Hon'ble Commission to consider the projected fuel mix for the 2020-21 including the GCV and Landed Price (at Normative transit Loss) in terms of Regulation 6.13 (c) and other applicable Regulations of GTR 2015. For APR of 2020-21, projection of GCV and Landed Price of CCL Shakti Round 3 coal has been considered similar to CCL Round 2 Coal.

Projected Coal Parameters for FY 2020-21- Unit # 2

	Fuel Mix ([%]	GCV (kCa	GCV (kCal/Kg)			Landed Price (Rs/MT)		
Particulars	Estd.	Approved by Hon'ble Commission	Estd.	Approved by Hon'ble Commission	Diff	Estd.	Approved by Hon'ble Commission	Diff	
Middling Coal	17.35%	58.93%	3861.50	4057.58	(196)	4230.82	4388.51	(158)	
ECL [e-auction] Coal	9.97%		5289.78		5290	6110.00		6110	
BCCL [e-auction] Coal	3.87%		4312.19		4312	5483.08		5483	

2 Product Coal	0.67%		2768.49		2768	3103.00		3103
Tailing (Road) Coal	4.29%		4190.41		4190	4362.00		4362
WB Reject Coal	2.33%		2723.15		2723	2713.00		2713
ECL [Shakti 2] Coal	6.97%	7.56%	5093.59	4848.00	246	5517.61	5441.29	76
CCL [Shakti 2] Coal	16.63%	17.07%	3915.94	3250	666	3482.87	2788.49	694
CCL [Shakti 2] WIV Coal	1.94%		5266.66		5267	4107.16		4107
MCL [Shakti 2] Coal	12.60%	16.44%	3121.06	2950.00	171	2568.63	2723.52	(155)
CCL [Shakti 3] Coal	23.37%		3915.94		3916	3482.87		3483
Wt. Avg			3128.13	3797.45	(669)	3194.07	3921.33	(727)

$\underline{Projected\ Coal\ Parameters\ for\ 2020\text{-}21\text{--}Unit\ \#\ 3}$

	Fuel Mix (%)	GCV (kCal/	Kg)		Landed Pri	ce (Rs/MT)	
Particulars	Estd.	Approved by Hon'ble Commission	Estd.	Approved by Hon'ble Commission	Diff	Estd.	Approved by Hon'ble Commission	Diff
Middling Coal	14.29%	61.74%	3859.13	4062.69	(204)	4215.88	4389.01	(173)
ECL [e-auction] Coal	2.50%		5284.58		5285	6110.00		6110
BCCL [e-auction] Coal	4.31%		4288.38		4288	5614.36		5614
2 Product Coal	0.77%		2768.49		2768	3103.00		3103
Tailing (Road) Coal	4.93%		4190.41		4190	4362.00		4362
WB Reject Coal	4.12%		2723.15		2723	2713.00		2713
ECL [Shakti 2] Coal	13.54%	7.05%	5026.62	4848.00	179	5439.20	5441.29	(2)
CCL [Shakti 2] Coal	14.02%	15.90%	3912.15	3250.00	662	3553.89	2788.49	765
CCL [Shakti 2] WIV Coal	0.53%		5119.35		5119	4070.97		4071
MCL [Shakti 2] Coal	20.38%	15.31%	3106.71	2950.00	157	2630.09	2723.52	(93)

CCL [Shakti 3] Coal	20.61%	3912.15		3912	3553.89		3554
Wt. Avg		3097.80	3818.43	(721)	3140.07	3953.64	(814)

61. Tata Power hereby humbly submits that Hon'ble Commission considering the variations in the coal mix compared to what had been approved in the MYT Ordre had directed to submit the quarterly report with regard to variations in Coal Mix compared to what had been approved along with reasons for the same. Petitioner in compliance of the same is submitting quarterly reports. However, it is submitted that with commencement of SHAKTI Coal for Unit 2 &3, the variations in the actual coal mix has come down. With SHAKTI coal in place significant variations is not expected and, hence, it is most humbly submitted before the Hon'ble Commission that earlier direction of quarterly submission may kindly be dispensed with and it may be permitted to submit such variations, if any, at the time of APR Petition.

MYT Petition for FY 2021-22 to FY 2025-26:

Ouery 13

62. The Petitioner is required to provide the approval of Competent Authority for the capital expenditure/scheme proposed for each year of the Control Period as per MYT Regulations.

Reply:

- 63. It is submitted that Tata Power vide its additional Affidavit dated 16.01.2021 has submitted the Detailed Project Report (DPRs) for following schemes as proposed for the Control Period FY 2022-26 alongwith approval of the Competent authority for the proposed schemes at Appendix 11 thereof. The same is reannexed herewith as **ANNEXURE R15** for kind reference of the Hon'ble Commission.
 - I. Ash Pipe Line
 - II. Bulldozer for CHP
 - III. Control Room AC
 - IV. BFP De-staging
 - V. Electrical Actuator
 - VI. Multi-layered Security Solution
 - VII. Oil Centrifuge
 - VIII. Turbine Parting Plane Bolts and Coupling Bolts
 - IX. Weighbridge

- X. Workshop Machine Tools, Condition Monitory Tools & Mobile Environmental

 Dust Extractor
- 64. It is submitted that Subsidiary Intelligence Bureau, (MHA), GOI had visited Jojobera Power Plant to evaluate security set up at jojobera Power plant. After assessment, the concerned authority has submitted its report on 10.02.2021. Report is annexed herewith and marked as **ANNEXURE R16** for kind perusal of the Hon'ble Commission. Presently we are evaluating the report and, therefore, seeks liberty of the Hon'ble Commission to approach Hon'ble Commission in case any additional work is required to be done to comply with direction contained in above report.

Ouery 14

- 65. As per MYT Regulations, the Petitioner is required to submit Human Resource Plan with manpower planning including details of the estimated year wise manpower addition and retirements for the Control Period to run the power plant efficiently and effectively. The Petitioner is required to furnish the same along with existing arrangement/manpower including Contractual employees.

 Reply:
- 66. The manpower arrangement as per the employee levels/grades for the Period 2015-16 has been presented in the Table below for the kind reference of the Hon'ble Commission.

Particulars	Tata Power Jojobera Units 1-4							
	2015-16	2016-17	2017-18	2018-19	2019-20			
MB Level	1	1	1	0	0			
MC Level	1	1	1	4	4			
MD Level	15	16	13	13	14			
ME Level	124	120	116	114	113			
Union Employees	44	43	43	43	43			
Contract Employee	0	0	0	0	5			
Grand Total	185	181	174	174	179			

67. It is humbly submitted that Tata Power does not foresee much variation in the Manpower strength over the upcoming Control Period and, hence, it has proposed to continue with the existing manpower arrangement for next control period i.e FY 2021-22 to FY 2025-26. In case of any retirement/internal transfer, Tata Power may arrange suitable replacement for the purpose of running the plant hassle-free. In view of above, it is requested before the Hon'ble Commission to kindly consider the present manpower arrangement and proposed manpower cost based on past expenses for next control

period (FY 2021-22 to FY 2025-26). In case of substantial deviation, if any, the Petitioner seeks liberty of the Hon'ble Commission to submit the same with Annual Performance Review and/or True-up Petition.

Ouery 15

68. It is observed that the Petitioner has proposed deviation in the Plant Load Factor (PLF) as compared to Clause 16.1 of the MYT Generation Regulations 2020 (normative specified in the MYT Regulations). The Petitioner is required to provide the reason for deviation.

Reply:

- 69. It is humbly submitted that the Plant Load Factor (PLF) for the Control Period FY 22-26 has been projected based on the demand projections given by the distribution licensee and also taking into consideration the Operational and Maintenance Plan. It is noteworthy to mention here that PLF of the Units is normally based on the demand of the distribution licensee which further depends upon various external factors which are beyond the control of the Petitioner. The Petitioner, therefore, projected the PLF for the year 2021-22 to 2024-25 in consonance with projection given by Tata Steel Distribution Licensee. In absence of any Projection from the distribution licensee, the PLF for FY 2025-26 has been considered as per projection of FY 2024-25. The projections given by Tata Steel Distribution Licensee is annexed herewith for kind reference of the Hon'ble Commission as **ANNEXURE R17**.
- 70. In view of above submissions, Petitioner requests before this Hon'ble Commission to kindly consider the given projection for the purpose of MYT.

Query 16

71. The Petitioner is required to provide the details of the Annual Contracted Quantity (ACQ), GCV and dispatch schedule of coal from each sources under SHAKTI Scheme in the as per the format below along with the proposed fuel mix for the Control period.

Reply:

72. The requisite details as per prescribed format are presented in the Table below for kind perusal of the Hon'ble Commission:

Source	ACQ	Grade	Dispatch Schedule	GCV U2	GCV U3	Qty Proposed in MYT	Percentage Proposed in MYT
Shakti Round 2							
ECL	85500	G4	90%	5109	5001	76334	90.0%

CCL	193000	G11	90%	3838	3856	172310	90.0%
MCL	185800	G13	90%	3130	3107	165882	90.0%
Sub Total	464300					414527	
Sha	Shakti Round 3						
CCL	577100	G11	90%	3838	3856	515235	90.0%

- 73. It is further submitted that Tata Power has in accordance with Regulation 17.10, 17.11, 17.14 and 17.15 of the Generation Tariff Regulations, 2020 arrived at the initial Base Values of GCV and Base Price of Coal & Secondary Fuel oil for the Control Period FY 2021-22 to 2025-26 by considering actual weighted average values for preceding 3 months viz. Aug'20 to Oct'20. It may be kindly noted that supply of CCL Shakti Round 3 Coal has begun only from month of November, therefore, for the purposes of projection GCV of CCL shakti Round 3 coal has been considered equivalent to GCV of CCL Shakti Round 2 Coal subject to true-up based on actuals.
- 74. Further, the proposed quantity has been considered at 90% of the ACQ after adjustment of normative transit loss of 0.8%. Such ratio was considered based on past experience and unpredictability of supply from subsidiaries of Coal India Limited. It will not be out of place to mention that in the past it has been observed that for both e-auction/captive/Linkage coal, the availability of Coal from these subsidiaries of CIL has been uncertain/unpredictable and at times the stocks have come to very critical level for which Tata Power had to immediately scout for coal from private washeries/or imported coal to maintain the reliability of the generation. The rakes booked had been pending for very long periods even after making advance payments. Consequently, it not only posed generation reliability issue but also impacted the overall generation cost.
- 75. In order to substantiate above, summary of source wise ACQ with requisitioned quantity and actual despatch has been presented in the Table below for kind reference.

Coal Source(CIL)	ACQ	Requisitioned Quantity	Actual dispatched Quantity	%
FY-18	MCL (FSA)	700000	406995.15	58%
FY-19	MCL (FSA)	700000	336544.91	48%
	CCL	256100	206449.65	81%
EV 20 (ECV)	BCCL	296100	0	0%
FY-20 (FSA) Tranche IV	NCL	53600	47617.48	89%
Tranche iv	MCL	37700	15717.33	42%
	ECL	141200	114058.27	81%
FY-20 (FSA) Shakti	ECL	38940	37068.66	95%
	ECL	116820	68777.98	59%
FY-20 (e-auction)	BCCL	105000	105408.77	100%
	MCL	24000	19015.22	79%

76. As can be seen from above, the overall despatch against the requisitioned quantity is mostly lower than 90%. Moreover, incentive is payable on Shakti coal beyond 90% dispatch which may be costlier than the other options like middling or 2Product from West Bokaro mines. Therefore, the Petitioner has considered 90% of the coal allocations under SHAKTI from these subsidiaries for planning purposes though it will endeavour to utilize the coal available from these sources to the maximum extent possible. Balance requirement is projected to be met through middling coal from collieries of West Bokaro being the most reliable source.

Query 17

- 77. As per Clause 14.5 of the MYT Generation Regulations, 2020, any additional capitalization proposed during the fag end of the project (at least 5 years before the Useful life or extended Useful life) of the plant need to be submitted with DPR,Cost-Benefit analysis, rate reasonability along with the residual life assessment report of the Project. It is observed that Petitioner's both Units has entered the fag life and therefore the Petitioner is required to provide the above said details for processing the additional capitalisation as proposed in the Petition.

 Reply:
- 78. It is submitted that residual life study includes extensive study of each equipment which is time consuming and can be only done during the Annual Shutdown (ASD) of the Units. The Petitioner in compliance to the earlier direction of the Commission has done RLA of boiler and turbine of Unit 3 during the ASD carried out recently in January'21. The report will be submitted to the Hon'ble Commission once it is available with the Petitioner. RLA for Electrical equipments and other BOP equipment's for Unit 3 is still in planning stage and is likely to be taken up during ASD Scheduled in FY 2022-23.
- 79. Similarly, for Unit 2, the RLA for boiler and turbine is projected to be taken-up during ASD for FY 23-24 whereas for the electrical equipments the same is planned to be taken-up during ASD scheduled in FY 2021-22.
- 80. It is further submitted that Petitioner has to incur substantial cost for carrying out Residual Life Study of critical equipments which are in compliance to directive of the Hon'ble Commission and squarely falls under the purview of statutory expenses and, being non-recurring in nature, were not included in the proposed normative O&M expenses. It is, therefore, humbly requested before the Hon'ble Commission to kindly reimburse the actual expenses incurred towards such RLA study over above the approved normative O&M expenses.

81. The actual expenditure incurred in FY 2020-21 towards carrying out RLA of Boiler and Turbine for Unit 3 is about Rs. 65.78 Lakh (Inclusive of GST) which may kindly be reimbursed to the Petitioner over and above the Normative Expenditure. Purchase Order placed on the party is annexed hereto and marked as **ANNEXURE R18 (colly)**. The same expenditure is further escalated at normal inflation of 10% year on year to estimate the expenditure of Rs. 87.56 Lakh (Inclusive of GST) to be incurred for Unit 2 in FY 2023-24. Similarly, for conducting RLA for electrical equipments of Unit 2 in FY 2021-22, the cost is estimated at Rs. 50 Lakh as shown below, and such cost has been further escalated at 10% to arrive at the estimated cost of Rs. 55 Lakh to be incurred towards RLA for electrical equipments of Unit 3 in FY 2022-23.

Serial No	Life Assessment	Cost	With Tax
1	Generator	1000000	1180000
2	150MVA GT	55000	64900
3	14MVA GT	55000	64900
4	21 Nos. of HT Motors	1050000	1239000
5	HT cables of 33 feeders	660000	778800
6	8 nos. of Distribution Transformers	400000	472000
7	Associated Services (example: Rotor		1200000
	Thread out etc)		
	Total		4999600
	Total (Approx)		Rs. 50 Lakh

Hon'ble Commission is requested to consider these additional expenses in respective years subject to true-up on actual basis.

Ouerv 18

- 82. The Petitioner is directed to provide the detailed break up of actual O&M Expenses (Employee Expenses, R&M Expenses, A&G Expenses and Head Office Expenses) along with break-up of the Legal/Litigation Expenses for the previous Years (FY 2015-16 to FY 2019-20) duly certified by the Statutory Auditor of the Company as required under Regulation 6.11 of the JSERC MYT Regulations, 2020. The Petitioner is also directed to submit the detail of activities carried out under the above said heads for the period from FY 2015-16 to FY 2019-20.
 - Reply:
- 83. It is humbly submitted that Petitioner in Section F7 of the Petition has in detail discussed about the break-up of O&M expenses and has then computed the projected expenses for upcoming control period in terms of the principles as laid down in the Tariff Regulations, 2020. It is humbly requested before this Hon'ble Commission to kindly refer the section F7 and additional submission made in subsequent paragraphs in respect of Other A&G Expenses while deciding on the projected O&M expenses for MYT. The same is not

- repeated herewith for sake of brevity and re-iteration of the same facts. The excel files have also been submitted alongwith the Tariff Petition. However, as directed break-up of 0&M expenses for the period FY 2015-16 to FY 2019-20 is enclosed herewith as **ANNEXURE R19** for Unit 2 and **ANNEXURE R20** for Unit 3 for kind consideration of the Hon'ble Commission.
- 84. However, regarding the breakup of litigation expenses, it is submitted that some legal expenses are incurred at plant level and litigation is mostly handled at the corporate level and the expenses incurred towards it are also booked at the corporate level of the Company. Only the expenses which were booked at plant level have been currently shown separately under the head of litigation expenses as detailed in section 7 of the Petition. The Common expenses at corporate level including litigation expenses are shared among the operating divisions in proportion of revenue of the operating division to the operating revenue of the company. Similar ratio is followed further while sharing such cost among different units within a location. Such prudent allocation has been relied upon by the Statutory Auditors of the company while certifying the accounts of Jojobera Unit 2 and 3 for HO expenses.
- 85. Tata Power further submits that as per Tariff Regulations, legal/litigations expenses shall be approved as per Jharkhand State Litigation Policy which is applicable only on the agencies of the State Government and same is not applicable on the Petitioner.
- 86. Further as submitted under query no 6, Repair and Maintenance expenses are mainly expense towards routine and annual maintenance of the machines which include both services and consumables & spares cost. The expenses in accounts have been booked under two Ledgers, namely consumables and services cost (services costs which includes outsourced labour costs that are subject to wage/labour laws) towards various activities carried out during the year. Activities carried out under Routine and Maintenance is annexed herewith and marked as **ANNEXURE R21** for kind reference of the Hon'ble Commission. It may kindly be noted that depending upon the breakdown, outage schedule or because of any other uncontrollable factors the activities may vary year to year in respective Units. Also, the further breakup of the A&G expenses alongwith brief details are enclosed in Annexure R19 and R20 for kind perusal of the Hon'ble Commission. It is humbly submitted that Audited Profit and Loss Account for the year FY 2015-16 to FY 2019-20 has been enclosed and marked as Annexure P17 and Annexure P28 of the main petition. Tata Power humbly requests Hon'ble Commission to kindly refer the same.

Additional Submission related to Other A&G expenses:

87. It is submitted that the Petitioner in line with Tariff Regulations 2020 and for reasons as stated in the Petition has considered the Raw Water Charges, Application Fee/Publication

- Expenses, legal expenses, Ash Disposal Expenses and Head Office expenses in separate head beside Other A&G Expenses i.e. A&G Expenses excluding legal and Application& Publication expenses. Ash Disposal Expenses, Water Charges, Application fee and Publication Expenses were estimated with best possible assumptions whereas Head Office expenses, legal expenses and Other A&G expenses were estimated based on the base year expenses which have been computed based on the past year expenses in the manner as prescribed in the Regulations.
- 88. In the instant Petition, to arrive at the Other A&G expenses for each year from 2015-16 to 2019-20, the Petitioner deducted actual Application fee/Publication expenses and legal expenses for Unit 2 and 3 as these heads were booked in the books under A&G expenses for Unit 2 and 3 and were not directly identifiable in the auditor certified Profit and Loss Account. While doing so, the Petitioner considered the actual Application and publication expenses for Unit 2 and 3 as claimed during the true-up for past years. However, while revisiting the documents, it has been observed that Application and Publication expenses including other advertising cost of Units 2 and 3 has been considered as a common expense to Unit 1 to 4 in books and, accordingly, the allocated cost in books of Unit 2 and Unit 3 is lower than the actual amount being incurred and claimed towards Application fees and Publication Expense in true-up. Thus, the auditor's certificate has allocated lower amount under this head for Units 2 and 3, but in the Petition actual higher amount incurred under Unit 2 and 3 has been deducted to arrive at lower than actual Other A&G Expenses. However, the Petitioner is not correcting and increasing the Other A&G Expenses to maintain consistency of methodology for allocation of expenses.

Ouerv 19

Reply:

- 89. It is observed that the Petitioner has considered the repayment equivalent to depreciation on additional capitalisation only i.e. capitalisation from FY 2011-12 onwards instead of total depreciation (original assets and additional capitalisation) while calculating interest on Loan. The Petitioner is required to provide the reason for deviating from Regulations.
- 90. is submitted that the interest on Normative loan is claimed and allowed only for Normative Loans pertaining to Additional Capitalizations from FY 2011-12 onwards and the loan on the Assets Capitalised as on COD in both the units has been entirely repaid by the Petitioner. Therefore, only depreciation pertaining to additional capitalisation has been considered equivalent to repayment while computing the Interest on Loan.
- 91. Further, the Hon'ble Commission while passing the previous tariff orders have noted and accepted the above submission of the Petitioner.

Query 20

- 92. It is observed that the Petitioner has projected the Non-Tariff Income (NTI) as nil for each year of the Control period and requested to submit the actuals under different heads at the time of Truing up. The Petitioner is directed to provide the detail break up of actual NTI for the period from FY 2015-16 to FY 2019-20. Reply:
- 93. As sought by the Hon'ble Commission, the breakup of the other income of Unit 2 and Unit 3 for the period FY 2015-16 to FY 2019-20 is summarized in the Table below:

Non-Tariff		Rs. Lakh			
Particulars	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 2019-20
Rental Income from Staff Quarters	0.44	0.40	0.53	0.75	1.16
Liabilities Written Back	5.20	0.00	0.00	-2.58	-0.78
Miscellaneous Revenue	3.63	0.00	0.06	0.04	3.98
Sale of Scrap	22.38	19.89	44.24	51.39	42.18
Interest Income from Employee Loans	0.45	0.45	0.24	0.35	0.34
Total	32.10	20.74	45.07	49.96	46.88

Non-Tariff		Rs. Lakh			
Particulars	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 2019-20
Rental Income from Staff Quarters	0.44	0.40	0.53	0.75	1.16
Liabilities Written Back	5.20	0.00	0.00	-2.58	-0.78
Miscellaneous Revenue	3.63	0.00	0.06	0.04	3.98
Sale of Scrap	22.38	19.89	44.24	51.39	42.18
Interest Income from Employee Loans	0.45	0.45	0.24	0.35	0.34
Total	32.10	20.74	45.07	49.96	46.88

94. With regard to above, it is humbly submitted that sale of scrap is mostly towards the sale of obsolete or irreparable assets which has to be discarded/decapitalised because there is no future economic benefit which can be derived from these assets. As per extant Regulations, depreciation allowed is limited to 90% of the admitted cost and not the entire cost for the reason that after disposal/sale of these assets after useful life of the asset is over the investor in all likelihood may be able to recover the remaining 10% normative residual value of the admitted cost through scrap sale. In other words, any loss or profit arising after sale of this decapitalized asset after end of the useful life of the asset compared to assumed residual value of 10% is to the generating company. Further, in

- case of decapitalization before useful life of the assets, generating company is even not able to recover the allowable depreciation. Therefore, deducting any income arising from such sale in either case would be incorrect.
- 95. In this regard, it is noteworthy to refer to the judgment of the Hon'ble Tribunal on the issue of 'Loss on account of de-capitalisation of assets its impact on allowable O&M Expenditure for the period 2004-2009' in the matter of Talcher Thermal Power Station in Appeal No. 88 of 2007. The said issue relates to recovery of loss on account of decapitalization performed during renovation and modernisation i.e., post useful life of the plant when 90% of cost has been recovered. Relevant part of the judgment is reproduced below which states that loss/profit arising out of decapitalized asset after useful life is to the generating company.
 - "37. Further, as per the policy of the Central Commission, any loss or profit arising out of the de-capitalised assets is to be borne/retained by the Appellant. That being the practice consistently followed by the Central Commission, we do not want to interfere with the same. There is also no Regulation on this aspect favouring the contention raised by the Appellant."
- 96. In light of above submissions, it is humbly submitted that sale of scrap may kindly not be reduced from ARR. Doing so will be a double hit to the Generating company. Moreover, in case of other items as mentioned in the above table, net income (income net off expenses), if any, only be considered as part of NTI and not the entire income which shall be known only at the time of true-up.

Annexure R1

TATA POWER COMPANY LIMITED , JOJOBERA POWER PLANT

Sheet 1 of 2
MONTHLY GENERATION REPORT FROM: 01-Apri-19 12:00:00 AM TO: 01-May-19 12:00:00 AM

FEEDER NAME	INITIAL READINGS		FINAL READINGS		DIFFERENCE	
	KWIH EYRORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KOMH IMPORT
GENERATION	POST CENT CITY	TOTAL DIST. CICI	INVALLEX ON	TOTAL THE CITE	MATTE LATE OF CT	Tradition Old
PML- GEN # 1 (Check)	1375456140	0	1417962532	0	42506392	
PML- GEN # 2 (Check)	3236963342				60615830	
PML- GEN # 3 (CHECK)	4179709128				63957257	
PML- GEN # 4 (CHECK)	10902496512				75357820	
PML- GEN # 5	6744871142				81429621	
I ME OLIT II O	1 01 1101 1112	100	DOLUMENT AND PROPERTY OF THE P	Generation (PML)	323866919	
PML- GEN # 1 (G1B)	7814157991	340			42093073	
PML- GEN # 2 (G2B)	13047401743				59878948	
PML- GEN # 3 (G3B)	13320726894				63755941	
PML GEN # 4 (G4B)	10956403107					
PML GEN # 5 (G5B)	6744219775					
FINE GEN#3 (GSB)	0144210110	1007		Seneration (Alpha)		
EXPORT						
PML- LINE # 1	8214999499	214369	8256202559	214369	41203060	
PML- LINE # 2	0		22 - 23 - 24 - 24 - 24 - 24 - 24 - 24 -	12.52.5252533		4
PML- LINE # 3	7548894272					
PML- LINE # 4	2589939005					
PML- LINE # 5	3934112726	7767	4			
PML- LINE # 6	1388534031					
			100,000,000,000,000,000,000			+
PML- LINE # 7	816804800					
PML- LINE # 8	713838080					
PML- LINE # 9	2384619067	40				
	T			otal 132 KV export		
PML- 33 kV ST1	2416840319					
PML- 33 kV ST2	2092800540					
PML- 33 kV ST3	173143413	148				
				Total 33 KV export		
PML- 132 kV ST1	2587331882					
PML- 132 kV ST2	2175259001					
PML- 132 kV ST3	1618018063	1932270	1636952972	1		
				ST 132 KV total	3620627	
PML- 6.6 kV C1 (T1C)	17049465	866				3
PML- 6.6 kV C2 (T2C)	42617456	93783	3 44197444	93783	157998	3
PML- 6.6 kV C5 (T3C)	82946352	186				
			Total	6.6 KV station load	434132	3
PML- 132 kV GT1 (G1A)	6870712872	8387	7 690869367	8387	3798080	5
PML- 132 kV GT2 (G2A)	(46659	9	46659	1099727	0
PML- 132 kV GT3 (G3A)	12192112839	287	1225065892	3 2873	5854608	9
PML- 132 kV GT4 (G4A)	7917899233	1797:	2 798683893	5 17972	6893970	2
PML- 132 kV ICT1 (G5A)	4401392710	39	1 447581945	391	7442674	5
			Total G	T export at 132 KV	25089061	2
PML - 6.6 KV C1 to U1A (TIE-U1) T1	276890	1	0 278227	7 10	1337	6
PML - 6.6 KV C2 to U1B (TIE U1) T2	49480050	38019	5 4948991	380195	986	0
PML - 6.6 KV C3 to U2A (TIE U2) T3	329452	1 7	3 340167	0 73	10714	9
PML - 6.6 KV C4 to U2B (TIE U2) T4	9040144		2 912214			
PML - 6.6 KV C3 to U3A (TIE U3)T5	6076554					
PML - 6.6 KV C4 to U3B (TIE U3) T6	1615999					
PML - 6.6 KV C2 to C6 (TIE U4) T7	997305					
PML - 6.6 KV C5 to C7 (TIE U4) T8	1251535					
PML - 6.6 KV C1to C8 (TIE U5) T9	3294854					
PML - 6.6 KV C5 to C9 (TIE U5) T10	3252211					
						0
PML - 6.6 KV C6 to U4A (TIE U3)T5	345086		0 345086			0
PML - 6.6 KV C7 to U4B (TIE U3) T6	322711		8 322711			2
PML - 6.6 KV U1A (Unit I/C U1)	7813543		3 8024524			
PML - 6.6 KV U1B (Unit I/C U1)	9823930		9 10012289			10.10
PML - 6.6 KV U2A (Unit I/C U2)	8111262		1 8342682			
PML - 6.6 KV U2B (Unit I/C U2)	3605945					
PML - 6.6 KV U3A (Unit I/C U3)	5433340		5686242			
PML - 6.6 KV U3B (Unit I/C U3)	2757489					
PML - 6.6 KV U4A (Unit I/C U4)	8641177	4 5	8969754			
PML - 6.6 KV U4B (Unit I/C U4)	6076314	5 6	6377326	1 6	2 301011	6
PML - 6.6 KV U5A (Unit I/C U5)	871551	8	9 172328	8	9 300777	0

PML - 6.6 KV U5B (Unit I/C U5)	11473424	7	4920360	7	3446936	0
C1 - BPRS 6.6 KV Feeder F1	BES. 10	0	910 10	0	0	0
BPRS - Jemco reveocery F2	1600.43	0	18.1.	0	1170	. 0
		Total	consumption by unit	bus from Station	635367	0
(F1-F2) ,IF F1 > F2, (F1-F	2) will be deduct	ted from total sta	ation load, else adder	d to station Load	-1170	
33 KV (D/G feeder reading	igs as reported b	by TSL			
Telco feeder at Telco end	1107952		1124859		16907000	
Cummins feeder at Cummins end	2159		4373		2214000	
Lafarge feeder at Lafarge end	34861		48361		. 13500000	
	132 KV line 9	and 6 secure me	eter readings as nots	ed by TSL		
Lin # 6 SECURE METER Reading	1065883	1091486	30723600	MF 1200000		
Lin # 9 SECURE METER Reading	2464.94	2530.92	65980000	MF 1000000		
		Reactive Gene	ration Readings			
	KVARH	MVAR				
Generator # 1 reactive	24340224	33.81	Generator # 4 reacti	ve	35186688	48.87
Generator # 2 reactive	28703744	39.87	Generator # 5 reacti	ive	29673472	41.21
Generator # 3 reactive	33348096	46.32				
		Compress	or Readings			
	Initial R	eadings	Final Re	adings	Net Rea	-
7	KWH Del	KWH Rec	KWH Del	KWH Rec	Net KWH Del	Net KWH Rec
Air Comp 1A (U1A Bus)	12959096	2	13140165			(
Air Comp 1B (U1B Bus)	12819617	2	13003572			(
Air Comp 2A (U2A Bus)	78921551	20	78921551	20		
Air Comp 2B (C3 Bus)	16831423	8	17170491		100000000000000000000000000000000000000	
Air Comp 2C (U3A Bus)		0	71539823	0	37-1/2007-14 E 120	
Air Comp 4A (U 4A Bus)	16339368	1680	16581895		A STATE OF THE PARTY OF THE PAR	
Air Comp 4B (U 4B Bus)	25226219	2	25670568	2	444349	
Air Comp 58 (U5B Bus)	33112379	3727	33550638	3727	438259	
				Toatal Comp Load	2259266	
		CLPH unit	# 1 Readings			
CLPH INC 1	9356.59		9525.91		169317	
CLPH INC 2	6976.62	2	7064.62	2	88000	
CT FAN BUS A SIDE	3450.50		3523.95	5	73452	
CT FAN BUS B SIDE	3483.83		3556.26		72432	
			1 + inc 2 - CT fan bus		111433	

MONTHLY GENERATION REPORT FROM: 01-Apr-19 12:00:00 AM

TO:

Sheet 2 of 2 01-May-19 12:00:00 AM

01-May-19 12.00:00 AM Report Generated on:

Total Station Load (C1 + C2+ C5)	4342498	Total static	on to unit tie load	635367	3707131	< allocated load
Total Compressor load on units	1920198	Total comm	on load on CLPH bu	is for allocation	111433	
对大型的 电电影 医电影	-Unit#1	Unit#2	Unit#3	Unit#4	Unit#5	Station
Generation	42093073	5987.8948	63755941	75753949	81285111	322767021
Unit Load	4112268	4256960	5209851	6750409	6942416	27271904
Compressor Load allocation	250419	356230	379295	450674	483579	1920198
CLPH load allocation	14532	20673	22011	26154	28063	111433
Corrected Unit Load	3900763	4526339	5288643	6540360	7015800	27271904
% Unit Consumption	9.27	7.56	8.30	8.63	8,63	8.45%
Allocated Station Load	483459	687738	732267	870070	933598	3707131
Station to unit consumption	23236	189153	157703	0	265275	635367
Total station load for each unit	506695	876891	889970	870070	1198873	4342498
% station load	1.20%	1.46%	1.40%	1.15%	1.47%	1.35%
Total Aux. consumed by unit	4407457	5403230	6178613	7410430	8214673	31614402
% of Aux. Consumption	10.47%	9.02%	9.69%	9.78%	10.11%	9.79%
Deemed PLF	98.94%	80.81%	87.06%	100.00%	99.51%	
PLF%	86.61%	69.30%	73.79%	87.68%	94.08%	81.88%

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr Arif
Signature

Name: Mr.Boban Chacko & Ms Usha Agrawal/ Ms. Suchismita Nayak

Signature Whe Agraw of

Date & Time

01-May-19 12:00:00 AM

Date & Time

01-May-19 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT 2011. For Unit 1,2 and 3 the unit law calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load for Unit 4 and 5 Unit I/C load recorded by 6 6 KV end meters plus 0.6

% of generation as transformer losses is considered as unit load. Total station load is caluctuated from the station I/C of CI,C2,C5 ie. T1C, T2C, T3C less the loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

FROM: 01-May-19 12:00:00 AM

TO:

31-May-19 12:00:00 AM

Report Generated on :	01-Jun-19 12:00:	00 AM				
FEEDER NAME	INITIAL R	EADINGS	FINAL RE	ADINGS	DIFFER	ENCE
	KWH EXPORT	WALL BADORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT
GENERATION	KWH EXPORT	KWH INIPORT	IKRALI EXPORT	Leaght Hall Old	рант Ба от	
PML- GEN # 1 (Check)	1417962532	0	1466098572	0	48136040	0
	3297579172					(
PML- GEN # 2 (Check)	4243666385	132			81764488	(
PML- GEN # 3 (CHECK)						0
PML- GEN # 4 (CHECK)	10977854332	188				0
PML- GEN # 5	6826300762	100		Generation (PML)		
		240				
PML- GEN # 1 (G1B)	7856251064					(
PML- GEN # 2 (G2B)	13107280690					
PML- GEN # 3 (G3B)	13384482835					
PML GEN #4 (G4B)	11032157056					
PML GEN # 5 (G5B)	6825504886	1507				
			Total	Generation (Alpha)	383333456	
EXPORT			0000077400	214369	50074861	Tribundada (
PML- LINE # 1	8256202559					
PML- LINE # 2	0					
PML- LINE #3	7588120709		A CONTRACTOR OF THE PARTY OF TH			
PML- LINE # 4	2627520964					
PML- LINE # 5	3971706477			-		PRESENTE REPRESENTATION OF THE PROPERTY OF THE
PML- LINE # 6	1405468007	The second secon	. / . 1.6 / . 10 /			The second secon
PML-LINE#7	822990912	127713384				
PML- LINE #8	720263552	38821884	726921344			
PML-LINE#9	2416258311	40				
			To	otal 132 KV export		
PML- 33 kV ST1	2432338514	2573	2450456213	2573	3 18117699	
PML- 33 kV ST2	2093339840	875	2093339840	875	5 (
PML- 33 kV ST3	0			143	8	
TWIL- 35 RV 010				Total 33 KV expor	t 18117699	14
PML- 132 kV ST1	2602608862	663969	262051369	663969	9 17904834	
PML- 132 kV ST2	2177253386			37561	3 1528347	7
PML- 132 kV ST3	1636952972			193227	0 2212272	7
PIML- 132 KV 313				ST 132 KV total	4155590	7
Deat C.C. INV. Cd. (Td.C)	17049465	860	1704946)
PML- 6.6 kV C1 (T1C)	44197444				3 166315	9
PML- 6.6 kV C2 (T2C)	85707692					
PML- 6.6 kV C5 (T3C)	83707632	- 1		6.6 KV station load	d 426124	4
70011/07//0/41	6908693677	7 838	_			
PML- 132 kV GT1 (G1A)	6906693677			4665		
PML- 132 kV GT2 (G2A)	THE RESIDENCE OF THE PROPERTY OF THE PARTY O		The state of the s			
PML- 132 kV GT3 (G3A)	12250658928					
PML- 132 kV GT4 (G4A)	798683893					
PML- 132 kV ICT1 (G5A)	4475819450			T export at 132 K		
						o l
PML - 6.6 KV C1 to U1A (TIE-U1) T1	278227					0
PML - 6.6 KV C2 to U1B (TIE U1) T2						
PML - 6.6 KV C3 to U2A (TIE U2) T3	3401670					
PML - 6.6 KV C4 to U2B (TIE U2) T4					2 636	0
PML - 6.6 KV C3 to U3A (TIE U3)T5	616791					•
PML - 6.6 KV C4 to U3B (TIE U3) T6	168234	THE RESERVE THE PROPERTY OF THE PARTY OF THE				2
PML - 6.6 KV C2 to C6 (TIE U4) T7	1020167					
PML - 6.6 KV C5 to C7 (TIE U4) T8	1326156					
PML - 6.6 KV C1to C8 (TIE U5) T9	3308623					
PML - 6.6 KV C5 to C9 (TIE U5) T10	3264969	5 32				
PML - 6.6 KV C6 to U4A (TIE U3)T5	345086	4 3	0 345917	TO SECURE AND ADDRESS OF THE PARTY OF THE PA	831	
PML - 6.6 KV C7 to U4B (TIE U3) T6	322711	2	8 323467		8 756	
PML - 6.6 KV U1A (Unit I/C U1)	8024524	5	3 8249162		3 224637	
PML - 6.6 KV U1B (Unit I/C U1)	10012289		9 10206272		193983	
PML - 6.6 KV U2A (Unit I/C U2)	8342682		1 8655813	1 3	313131	1
PML - 6.6 KV U2B (Unit I/C U2)	3764294	The second secon	4 3988733	1 10	14 224439	0
PML - 6.6 KV U3A (Unit I/C U3)	5686242		8 6025425		339183	1
PML - 6.6 KV U3B (Unit I/C U3)	2972860				245996	2
PML - 6.6 KV U4A (Unit I/C U4)	8969754		5 9256376		55 286622	4
	6377326				412652	
PML - 6.6 KV U4B (Unit I/C U4)		The second secon	6789979			

Total consumption by unit bus from Station 327784
Total Station Lead (C1+C2+C5) Total Station Compressor Clark Cl
Total consumption by unit bus from Station 327784
F1-F2 F1-F2
Telco feeder at Telco end
Commins feeder at Cummins end 4373 4354 6637 2264000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 1476000 147600000 147600000 147600000 147600000 147600000 147600000 147600000 147600000 147600000 1476000000 147600000 1476000000 1476000000 1476000000 14760000000 1476000000 1476000000 1476000000 1476000000 14760000000 1476000000 14760000000 1476000000 14760000000 14760000000 14760000000 14760000000 14760000000 1476000000000000000000000000000000000000
Lafarge feeder at Lafarge end
132 KV line 9 and 6 secure meter readings as noted by TSL
Lin # 6 SECURE METER Reading
SECURE METER Reading 2530.92 2566.04 35120000 MF 1000000
Reactive Generation Readings
KVARH
Senerator # 1 reactive 27020544 36.32 Generator # 4 reactive 42555392
Senerator # 2 reactive 40186880 54.01 Generator # 5 reactive 26234368
Senerator # 3 reactive
Initial Readings Final Readings Net Rea
Initial Readings Final Readings Net Rea
KWH Del KWH Del KWH Del KWH Rec KWH Del KWH Rec Rec Ret KWH Del
Air Comp 1A (U1A Bus)
Air Comp 1B (U1B Bus) 13003572 2 13147247 2 143675 Air Comp 2A (U2A Bus) 78921551 20 78921551 20 107524 Air Comp 2B (C3 Bus) 17170491 8 17400007 8 229516 Air Comp 2C (U3A Bus) 71539823 0 71935433 0 395610 Air Comp 4A (U 4A Bus) 16581895 1680 16780453 1680 198558 Air Comp 4B (U 4B Bus) 25670568 2 26179307 2 508739 Air Comp 5B (U5B Bus) 33550638 3727 34048499 3727 497861 CLPH INC 1 9525.91 9705.40 179490 CLPH INC 2 7064.62 7159.04 94425 CT FAN BUS A SIDE 3523.95 3599.90 75951 CT FAN BUS B SIDE 3556.26 3632.02 75754 Common Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT MONTHLY GENERATION REPORT FROM: 01-May-19 12:00:00 AM Total Station Load (C1 + C2 + C5) 4262474 Total station to unit tie load 327784 3934690 Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
Air Comp 2A (U2A Bus) 78921551 20 78921551 20 107524 Air Comp 2B (C3 Bus) 17170491 8 17400007 8 229516 Air Comp 2C (U3A Bus) 71539823 0 71935433 0 395610 Air Comp 4A (U 4A Bus) 16581895 1680 16780453 1680 198558 Air Comp 4B (U 4B Bus) 25670568 2 26179307 2 508739 Air Comp 5B (U5B Bus) 33550638 3727 34048499 3727 497861 CLPH unit #1 Readings CLPH Unit #1 Readings CLPH INC 1 9525.91 9705.40 179490 CLPH INC 2 7064.62 7159.04 94425 CT FAN BUS A SIDE 3553.95 3599.90 75951 CT FAN BUS B SIDE 3556.26 3632.02 75754 COmmon Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT MONTHLY GENERATION REPORT FROM: 01-May-19 12:00:00 AM Total Station Load (C1 + C2 + C5) 4262474 Total station to unit tie load 327784 3934690 Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
Air Comp 2B (C3 Bus) 17170491 8 17400007 8 229516 Air Comp 2C (U3A Bus) 71539823 0 71935433 0 395610 Air Comp 4A (U 4A Bus) 16581895 1680 16780453 1680 198558 Air Comp 4B (U 4B Bus) 25670568 2 26179307 2 508739 Air Comp 5B (U5B Bus) 33550638 3727 34048499 3727 497861 Toatal Comp Load 2203876
Air Comp 2C (U3A Bus) 71539823 0 71935433 0 395610 Air Comp 4A (U 4A Bus) 16581895 1680 16780453 1680 198558 Air Comp 4B (U 4B Bus) 25670568 2 26179307 2 508739 Air Comp 5B (U5B Bus) 33550638 3727 34048499 3727 497861 Toatal Comp Load 2203876 CLPH INC 1 9525.91 9705.40 179490 CLPH INC 2 7064.62 7159.04 94425 CT FAN BUS A SIDE 3523.95 3599.90 75951 CT FAN BUS B SIDE 3556.26 3632.02 75754 Common Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT MONTHLY GENERATION REPORT FROM: 01-May-19 12:00:00 AM Total Station Load (C1 + C2 + C5) 4262474 Total station to unit tie load 327784 3934690 Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
Air Comp 4A (U 4A Bus) 16581895 1680 16780453 1680 198558
Air Comp 4B (U 4B Bus) 25670568 2 26179307 2 508739 Air Comp 5B (U5B Bus) 33550638 3727 34048499 3727 497861 Toatal Comp Load 2203876 CLPH unit # 1 Readings CLPH INC 1 9525.91 9705.40 179490 CLPH INC 2 7064.62 7159.04 94425 CT FAN BUS A SIDE 3523.95 3599.90 75951 CT FAN BUS B SIDE 3556.26 3632.02 75754 Common Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT MONTHLY GENERATION REPORT FROM: 01-May-19 12:00:00 AM Total Station Load (C1 + C2 + C5) 4262474 Total station to unit tie load 327784 3934690 Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
Toatal Comp Load 2203876 CLPH unit # 1 Readings
CLPH unit # 1 Readings 9705.40 179490 CLPH INC 1 9525.91 9705.40 179490 CLPH INC 2 7064.62 7159.04 94425 GT FAN BUS A SIDE 3523.95 3599.90 75951 GT FAN BUS B SIDE 3556.26 3632.02 75754 Gommon Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT TO: 31-May-19 12:00:00 AM To: 31
CLPH INC 1 9525.91 9705.40 179490
CLPH INC 2 7064.62 7159.04 94425
CT FAN BUS A SIDE 3523.95 3599.90 75951 CT FAN BUS B SIDE 3556.26 3632.02 75754 Common Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT
CT FAN BUS B SIDE 3556.26 3632.02 75754 Common Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) 122210 TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT
Common Load on CLPH Unit 1 (inc1 + inc 2 - CT fan bus A - CT fan bus B) TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT MONTHLY GENERATION REPORT FROM: 01-May-19 12:00:00 AM To: 31-May-19 12:00:00 AM Total Station Load (C1 + C2+ C5) 4262474 Total station to unit tie load 327784 3934690 Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
TATA POWER COMPANY LIMITED JOJOBERA POWER PLANT MONTHLY GENERATION REPORT FROM: 01-May-19 12:00:00 AM TO: 31-May-19 12:00:00 Report Generated on: 01-Jun-19 12:00:00 AM Total Station Load (C1 + C2 + C5) 4262474 Total station to unit tie load 327784 3934690 Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
Total Compressor load on units 1974360 Total common load on CLPH bus for allocation 122210
Unit#1 Unit#2 Unit#3 Unit#4 Unit#5
Generation 47808400 77780907 81491859 87523097 88729194
Unit Load 4367613 5842386 6515312 7517892 7564190
Compressor Load allocation 246237 400611 419724 450788 457000
CLPH load allocation 15242 24797 25980 27903 28288
Corrected Unit Load 4240814 6160270 6565406 7289286 7551617 % Unit Consumption 8.87 7.92 8.06 8.33 8.51
% Unit Consumption 8.87 7.92 8.06 8.33 8.51 Allocated Station Load 490725 798375 836465 898373 910752
Station to unit consumption 0 11705 0 15881 300198
Total station load for each unit 490725 810080 836465 914254 1210950
% station load 1.03% 1.04% 1.03% 1.04% 1.03% 1.04% 1.36%
Total Aux. consumed by unit 4731538 6970350 7401872 8203539 8762567
% of Aux. Consumption 9.90% 8.96% 9.08% 9.37% 9.88%
Deemed PLF 100.00% 99.56% 100.00% 99.69% 99.53%
PLF% 95.20% 87.12% 91.28% 98.03% 99.38%

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT'2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load. for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters plus

0.6 % of generation as transformer losses is considered as unit load. Total station load is calucluated from the station I/C of C1,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

FROM:

01-Jun-19 12:00:00 AM

Sheet 1 of 2 TO: 01-Jul-19 12:00:00 AM

FEEDER NAME	INITIAL READINGS		FINAL RE	ADINGS	DIFFERENCE		
		60. 4			2,,,21		
	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	
GENERATION							
PML- GEN # 1 (Check)	1466098572						
PML- GEN # 2 (Check)	3375688074						
PML- GEN # 3 (CHECK)	4325430873						
PML- GEN # 4 (CHECK) PML- GEN # 5	11064963782 6915187752						
PML- GEN # 5	6915167752	100		Generation (PML			
PML- GEN # 1 (G1B)	7904059464	340		Company of the Compan			
PML- GEN # 2 (G2B)	13185061597						
PML- GEN # 3 (G3B)	13465974694				92,4200,000 D.T. T.		
PML GEN # 4 (G4B)	11119680152				THE CONTRACTOR OF THE CONTRACT	-	
PML GEN # 5 (G5B)	6914234079						
				Seneration (Alpha			
EXPORT					Bigitalijense synera a n	I Samuel Committee of the Committee of t	
PML- LINE # 1	8306277420	214369	8349645408	214369	43367989	I	
PML- LINE # 2	0		0		43938252		
PML- LINE # 3	7636271922	106130	7678596830	106130	42324908		
PML- LINE # 4	2674348766						
PML- LINE # 5	4014359859						
PML- LINE # 6	1427421505	750.00		(10.000)		+	
PML- LINE # 7	829413184						
PML- LINE # 8	726921344						
PML- LINE # 9	2451939063	40		1			
				tal 132 KV export		+	
PML- 33 kV ST1	2450456213						
PML- 33 kV ST2	2093339840		2093339840	1 2000			
PML- 33 kV ST3				Total 33 KV expor			
PML- 132 kV ST1	2620513695	663969					
PML- 132 kV ST2	2178781732		the state of the s				
PML- 132 kV ST3	1659075698			TE 00209,00002000		-	
1 ME-102 KV 013	1000070000	TOUZETO	1073040073	ST 132 KV total			
PML- 6.6 kV C1 (T1C)	17049465	866	17049465			-	
PML- 6.6 kV C2 (T2C)	45860603	·					
PML- 6.6 kV C5 (T3C)	88305777	186	91120870	186			
			Total 6	6.6 KV station load	4301107		
PML- 132 kV GT1 (G1A)	6952134464	8387					
PML- 132 kV GT2 (G2A)	0	46659	0	46659	10997270		
PML- 132 kV GT3 (G3A)	12325635476	2873	12389161993	2873	63526518		
PML- 132 kV GT4 (G4A)	8066714743	17972	8135950390	17972	69235647		
PML- 132 kV ICT1 (G5A)	4557233625	391	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY.				
				T export at 132 K			
PML - 6.6 KV C1 to U1A (TIE-U1) T1	* 2782277			10			
PML - 6.6 KV C2 to U1B (TIE U1) T2	49489910						
PML - 6.6 KV C3 to U2A (TIE U2) T3	3497007						
PML - 6.6 KV C4 to U2B (TIE U2) T4	9128516						
PML - 6.6 KV C3 to U3A (TIE U3)T5	6167915			The second secon	100		
PML - 6.6 KV C4 to U3B (TIE U3) T6 PML - 6.6 KV C2 to C6 (TIE U4) T7	1682341						
PML - 6.6 KV C2 to C6 (TE U4) 17	10502075 14012714						
PML - 6.6 KV C1to C8 (TIE U5) T9	33245053					-	
PML - 6.6 KV C5 to C9 (TIE U5) T10	32791076					-	
PML - 6.6 KV C6 to U4A (TIE U3)T5	3459179						
PML - 6.6 KV C7 to U4B (TIE U3) T6	3234678		3234678		8 0		
PML - 6.6 KV U1A (Unit I/C U1)	82491622		84134793		3 1643171		
PML - 6.6 KV U1B (Unit I/C U1)	2062726						
PML - 6.6 KV U2A (Unit I/C U2)	86558131						
PML - 6.6 KV U2B (Unit I/C U2)	39887331				250000000000000000000000000000000000000		
PML - 6.6 KV U3A (Unit I/C U3)	60254255						
PML - 6.6 KV U3B (Unit I/C U3)	32188567	213	34585445	21	3 2396878	B a state of	
PML - 6.6 KV U4A (Unit I/C U4)	92563767	5.	95257669	5	5 2693902	2	
PML - 6.5 KV U4B (Unit L/C U4)	67899790	63	71403829	5.	2 3504039		
			205	19 De 19			

PML - 6.6 KV U5B (Unit I/C U5)	8824369	7	2477359	7	3652990	.(
C1 - BPRS 6.6 KV Feeder F1	653.10	0	653.10	0	0	(
BPRS - Jemco reveocery F2	1602.83	0	1603.99	0	1160	(
1.3			consumption by unit		308270	. (
(F1-F2) ,IF F1 > F2, (F1-F	2) will be deduc	ted from total sta	ation load, else adde	d to station Load	-1160	
33 KV (O/G feeder readii	ngs as reported	by TSL			
Telco feeder at Telco end	1145858		1162773		16915000	
Cummins feeder at Cummins end	6637		8838		2201000	
Lafarge feeder at Lafarge end	62873		77422		14549000	
	132 KV line 9	and 6 secure me	eter readings as not	ed by TSL		
Lin # 6 SECURE METER Reading	1109788	1128382	22312800	MF 1200000		
Lin # 9 SECURE METER Reading	2566.04	2594.82	28780000	MF 1000000		
		Reactive Gene	eration Readings			
	KVARH	MVAR				
Generator # 1 reactive	24997888	34.72	Generator # 4 react	ive	41638912	57.83
Generator # 2 reactive	35099648	48.75	Generator # 5 react	ive	27.208192	37.79
Generator # 3 reactive	35906560	49.87				
		Compress	or Readings			
	Initial R	eadings	Final Re	adings	Net Rea	dings
	KWH Del	KWH Rec	KWH Del	KWH Rec	Net KWH Del	Net KWH Rec
Air Comp 1A (U1A Bus)	13262558	2	13359696	2	97138	
Air Comp 1B (U1B Bus)	13147247	2	13268896	2	121649	
Air Comp 2A (U2A Bus)	78921551	20	78921551	20	107524	
Air Comp 2B (C3 Bus)	17400007	8	17876175	8	476168	
Air Comp 2C (U3A Bus)	71935433	0	72054479	0	119046	
Air Comp 4A (U 4A Bus)	16780453	1680	17046911	1680	266458	22
Air Comp 4B (U 4B Bus)	26179307	2	26437505	2	258198	1
Air Comp 5B (U5B Bus)	34048499	3727	34600208	3727	551709	
		* 100		Toatal Comp Load	1997890	
	Market Francisco	CLPH unit	#1 Readings			
CLPH INC 1	9705.40		9876.70	-	171301	
CLPH INC 2	7159.04		7251.60		92557	
CT FAN BUS A SIDE	3599.90		3674.30		74399	10
						1
CT FAN BUS B SIDE	3632.02		3705.90		73882	

ONTHLY GENERATION REPORT eport Generated on :	FROM: 0* 1-Jul-19 12:00:00	1-Jun-19 12:00:00 AM	AM	TO: 01	-Jul-19 12:00:00	AM
Total Station Load (C1 + C2+ C5)	4302267		on to unit tie load on load on CLPH bu	308270	3993997 115577	< allocated loa
Total Compressor load on units	1521722 Unit # 1	Unit # 2	Unit #3	Unit # 4	Unit#5	Station
Generation	41327396	64911402	68926604	76008975	81857044	THE RESIDENCE OF THE PERSON NAMED IN
Unit Load	4068878	5280336	5400086	6653995	7221479	2862477
Compressor Load allocation	188837	296600	314947	347308	374030	152172
CLPH load allocation	14342	22527	23921	26379	28408	11557
Corrected Unit Load	3937693	5491940	5619907	6503026	7072208	2862477
% Unit Consumption	9.53	8,46	8.15	8.56	8.64	8.60
Allocated Station Load	495633	778473	826627	911564	981700	399399
- Station to unit consumption	0	13095	- 0	447	294728	30827
Total station load for each unit	495633	791568	826627	912011	1276428	430226
% station load	1.20%	1.22%	1,20%	1.20%	1.56%	1.29
Total Aux, consumed by unit	4433327	6283508	6446534	7415037	8348636	3292704
% of Aux. Consumption	10.73%	9.68%	9.35%	9.76%	10.20%	9.89
Deemed PLF	100.00%	99.51%	100.00%	100.00%	99.81%	
PLF%	85.04%	75.13%	79.78%	87.97%	94.74%	84.48

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr G K Sinha

Name: Mr.Boban Chacko & MS. Suchismita Nayak

Signature Courthy

Signature

Date & Time

01-Jul-19 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 25th COT 2011. For Unit 1/2 and 3 the unit Aux calculated as difference of 11KV, materiread no and 132 KV mater reading after QT of each unit as Unit load. For Unit 4 and 5 Unit 1/3 basi recorded by 8.6 KV and materials but

0.6 % of generation as transformer losses is considered as unit load. Total station load is calucluated from the station I/C of C!,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT FROM: 01-Jul-19 12:00:00 AM Report Generated on : 01-Aug-19 12:00:00 AM

TO:

01-Aug-19 12:00:00 AM

Report Generated on :	01-Aug-19 12:00					
FEEDER NAME	INITIAL F	EADINGS	FINAL RE	ADINGS	DIFFER	ENCE
	KWH EXPORT	KWHIMPORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT
GENERATION						
PML- GEN # 1 (Check)	1507750317			0	42004128	0
PML- GEN # 2 (Check)	3440955012			0		
PML- GEN # 3 (CHECK)	4394599265	132	4461862351	132		0
PML- GEN # 4 (CHECK)	11140720032	23366	11208859096	23366	68139064	0
PML- GEN # 5	6997189290	188	7073935755	188	76746465	0
		e to see the	Total	Generation (PML)	316047388	
PML- GEN # 1 (G1B)	7945386860	340	7987034891	340	41648031	0
PML- GEN # 2 (G2B)	13249972999	442	13311564340	442	61591341	0
PML- GEN # 3 (G3B)	13534901298	530	13601930631	530	67029334	C
PML GEN #4 (G4B)	11195689127	375	11264051862	375	68362735	C
PML GEN # 5 (G5B)	6996091123	1507	7072705274	1507	76614151	C
	Section 1	and the second	Total G	eneration (Alpha)	315245591	
EXPORT			enggerung de titur gra			
PML- LINE # 1	8349645408	214369	8394508699	214369	44863291	C
PML- LINE # 2	0	+		0		1
PML- LINE # 3	7678596830	106130	7721751452	106130	43154622	
PML- LINE # 4	2713812196			25		
PML- LINE # 5	4046897142			9570885	17833115	
PML- LINE # 6	1449672963			752	19124927	
PML- LINE # 7	835763712			127713384	6311296	
PML- LINE #8	733535424			38821884	6582464	
PML- LINE # 9	2480507089			40	29147140	
	17		<u> </u>	tal 132 KV export	252738336	
PML- 33 kV ST1	2466501111	2573		2573	14171455	
PML- 33 kV ST2	2093339840		·	8755	0	
PML- 33 kV ST3	0		·			
	**************************************		I	otal 33 KV export		
PML- 132 kV ST1	2636367142	663969	· · · · · · · · · · · · · · · · · · ·	663969		
PML- 132 kV ST2	2180133324			375613		
PML- 132 kV ST3	1679346079					
	10,00,00	1 1002210	100.112020	ST 132 KV total	33297658	
PML- 6.6 kV C1 (T1C)	17049465	866	17073170			
PML- 6.6 kV C2 (T2C)	47346617		<u> </u>	93783		
PML- 6.6 kV C5 (T3C)	91120870				2928194	
7 N Z 010 X 7 00 (100)	1 01120010	100		6 KV station load		
PML- 132 kV GT1 (G1A)	6989392983			8387	37481205	
PML- 132 kV GT2 (G2A)	0			46659	10997270	
PML- 132 kV GT3 (G3A)	12389161993			2873	61375316	
PML- 132 kV GT4 (G4A)	8135950390			17972	61871965	<u> </u>
PML- 132 kV ICT1 (G5A)	4632138023			391		1
TIME TOZIKY TO FT (GOA)	1002100020	1 331		export at 132 KV		
PML - 6.6 KV C1 to U1A (TIE-U1) T1	2782277	10		10	241443100	
PML - 6.6 KV C2 to U1B (TIE U1) T2	49489910					
PML - 6.6 KV C3 to U2A (TIE U2):T3	3415811			73		·
PML - 6.6 KV C4 to U2B (TIE U2) T4	9132807	·		52	· · · · · · · · · · · · · · · · · · ·	+
PML - 6.6 KV C3 to U3A (TIE U3)T5	6167915			349	0	
PML - 6.6 KV C4 to U3B (TIE U3) T6	1682341			91	0	+i
PML - 6.6 KV C2 to C6 (TIE U4) T7	10790889		· · · · · · · · · · · · · · · · · · ·	35514523		
PML - 6.6 KV C5 to C7 (TIE U4) T8	14731356			15291909		
PML - 6.6 KV C1 to C8 (TIE U5) T9		<u> </u>				
	33391341			4012928	145978	
PML - 6.6 KV C5 to C9 (TIE U5) T10	32939516			325	159943	
PML - 6.6 KV C6 to U4A (TIE U3)T5 PML - 6.6 KV C7 to U4B (TIE U3) T6	3459626			30		
· · · · · · · · · · · · · · · · · · ·	3234678			8		
PML - 6.6 KV U1A (Unit I/C U1)	84134793			3		
PML - 6.6 KV U1B (Unit I/C U1)	4417119			99	2140834	· · · · · · · · · · · · · · · · · · ·
PML - 6.6 KV U2A (Unit I/C U2)	89470334			31	2777946	
PML - 6.6 KV U2B (Unit I/C U2)	41865996			104		
PML - 6.6 KV U3A (Unit I/C U3)	62891402			28		
PML - 6.6 KV U3B (Unit I/C U3)	34585445		· · · · · · · · · · · · · · · · · · ·	213		
PML - 6.6 KV U4A (Unit I/C U4)	95257669			55		
PML - 6.6 KV U4B (Unit I/C U4)	71403829			62		
PML - 6.6 KV U5A (Unit I/C U5)	7928441	9	1117507	9	3189066	0

PML - 6.6 KV U5B (Unit I/C U5)	2477359	7	5775052	7	3297693	
C1 - BPRS 6.6 KV Feeder F1	653.10	0	653.10			
PRS - Jemco reveocery F2	1603.99	ò	1605.16			
	and the second s	Total	consumption by uni			. :
(F1-F2) ,IF F1 > F2, (F1-F	2) will be deducte D/G feeder reading	d from total st	ation load, else adde		-1170	
72.11.1.27.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1	a, a, and a, a, an alast many complete	js as reported	ment of the state		4000000	
elco feeder at Telco end ummins feeder at Cummins end	1162773 8838		1176102 10726		13329000 1888000	
afarge feeder at Lafarge end	77422		92153		14731000	
alarge reeder at Lararge end		nd Coroneo m	eter readings as not	V/0-914-9-974-11-20 676151 At Evat h 7-14/7-97-97-97	1473,000	
in # 6 SECURE METER Reading	1128382	1144264	W			# 1984 Adams
n # 9 SECURE METER Reading	2594.82	2624.99		MF 1000000		
II # 9 SECORE WETER Reading	2594.02		ration Readings	MIT TOUCH		
	KVARH	MVAR				
enerator # 1 reactive	26689536	35.87	Generator # 4 react	ive	40300544	54.17
enerator # 2 reactive	32410624	43.56	Generator # 5 react		32390144	43.54
enerator # 3 reactive	35486720	47.70	Concrete To Teact			
	00-100, 20		or Readings			
	Initial Re	adings	Final Re	adinos	Net Rea	dinas
Financian de Sant Still mari cinteration ventil 1865 (1971) 1971 (1971) 1971		(WH Rec	KWH Del	KWH Rec		Net KWH Red
Air Comp 1A (U1A Bus)	13359696	2	13380111	2		
Air Comp 1B (U1B Bus)	13268896	2	13528254	2	259358	
Air Comp 2A (U2A Bus)	78921551	20	78921551	20	107524	
Air Comp 2B (C3 Bus)	17876175	8	18145535	8	269360	
Air Comp 2C (U3A Bus)	72054479	0	72370883	0	316404	
Air Comp 4A (U 4A Bus)	17046911	1680	17333328	1680	286417	
Air Comp 4B (U 4B Bus)	26437505	2	26742362	2	304857	
Air Comp 5B (U5B Bus)	34600208	3727	35111450	3727	511242	
				oatal Comp Load	2075577	
		CLPH unit	1 Readings			
CLPH INC 1	9876.70		10040.00		163300	
CLPH INC 2	7251.60	***	7347.20		95600	
CT FAN BUS A SIDE	3674.30		3750.40		76100	
CT FAN BUS A SIDE CT FAN BUS B SIDE	3674.30 3705.90	NI II de de de de ser ed	3750.40 3781.40	A CT for him D	76100 75500	
CT FAN BUS A SIDE CT FAN BUS B SIDE	3674.30 3705.90	PH Unit 1 (inc1	3750.40	A - CT fan bus B)	76100	
CT FAN BUS A SIDE CT FAN BUS B SIDE	3674.30 3705.90 mon Load on CLI		3750.40 3781.40 + inc 2 - CT fan bus		76100 75500	
CT FAN BUS A SIDE CT FAN BUS B SIDE	3674.30 3705.90 mon Load on CLI	TATA POV	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA	NY LIMITED	76100 75500	
CT FAN BUS A SIDE CT FAN BUS B SIDE	3674.30 3705.90 mon Load on CLI	TATA POV	3750.40 3781.40 + inc 2 - CT fan bus	NY LIMITED	76100 75500 107300	
CT FAN BUS A SIDE CT FAN BUS B SIDE Com	3674.30 3705.90 mon Load on CLI	TATA POV JOJOBERA	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT	NY LIMITED	76100 75500 107300	Sheel 2 of 2
CT FAN BUS A SIDE CT FAN BUS B SIDE Com Com	3674.30 3705.90 mon Load on CLI	TATA POV JOJOBERA 1-Jul 19 12:00:0	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT	NY LIMITED	76100 75500 107300	1 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CT FAN BUS A SIDE CT FAN BUS B SIDE Com Com	3674.30 3705.90 mon Load on CLI	TATA POV JOJOBERA 1-Jul 19 12:00:0	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT	NY LIMITED	76100 75500 107300	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CT FAN BUS A SIDE CT FAN BUS B SIDE Com Com ONTHLY GENERATION REPORT	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT	NY LIMITED	76100 75500 107300 107300 01-Aug-19:12:00:00	AM.
CT FAN BUS A SIDE CT FAN BUS B SIDE Com COM ONTHLY GENERATION REPORT eport Generated on : Total Station Load (C1 + C2+ C5)	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0	TATA POV JOJOBERA 1-Jul 19 12:00:0 0 AM	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 00 AM	NY LIMITED TO: 305921	76100 75500 107300 01-Aug-19 12:00:00	1 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CT FAN BUS A SIDE CT FAN BUS B SIDE Com Com ONTHLY GENERATION REPORT	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0	TATA POV JOJOBERA 1-Jul 19 12:00:0 0 AM	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT	NY LIMITED TO: 305921	76100 75500 107300 107300 01-Aug-19:12:00:00) AM sallocated lo
CT FAN BUS A SIDE CT FAN BUS B SIDE Com Com ONTHLY GENERATION REPORT Eport Generated on : Total Station Load (C1 + C2+ C5)	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217	TATA POV JOJOBERA 1-Jul 19 12:00:0 0 AM Total st Total con	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT DO AM ation to unit tie load	TO: 305921 bus for allocation Unit # 4	76100 75500 107300 01-Aug-19 12:00:00 3702648 107300	AM allocated lo
CT FAN BUS A SIDE CT FAN BUS B SIDE Com COM ONTHLY GENERATION REPORT Eport Generated on Total Station Load (C1 + C2+ C5) Total Compressor load on units	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st Total con Unit # 2	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 30 AM ation to unit tie load	TO: 305921 bus for allocation Unit # 4	76100 75500 107300 01-Aug-19 12:00:00 3702648 107300 Unit # 5	AM ≼ allocated lo Station 3152455
CT FAN BUS A SIDE CT FAN BUS B SIDE Com COM ONTHLY GENERATION REPORT Sport Generated on Total Station Load (C1 + C2 + C5) Total Compressor load on units Generation	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit # 1 41648031	TATA POV JOJOBERA 1 Jul 19 12:00:0 0 AM Total st. Total con Unit # 2 61591341	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT DO AM ation to unit fie load mon load on CLPH Unit #3 67029334	TO: 305921 bus for allocation Unit # 4 68362735	76100 75500 107300 01-Aug-19 12:00:00 3702648 107300 Unit # 5 76614151	✓ allocated ic Station 3152455 282174
CT FAN BUS A SIDE CT FAN BUS B SIDE Com COM ONTHLY GENERATION REPORT Sport Generated on . Total Station Load (C1 + C2 + C5) Total Compressor load on units Generation Unit Load	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit # 1 41648031 4166826	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT DO AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018	TO: 305921 bus for allocation Unit # 4 68362735 6393739	76100 75500 107300 01-Aug-19 12:60:00 3702648 107300 Unit # 5 76614151 6946444	✓ allocated lo Station 3152455 282174 18062
CT FAN BUS A SIDE CT FAN BUS B SIDE Com COM ONTHLY GENERATION REPORT Eport Generated on: Total Station Load (C1 + C2 + C5) Total Compressor load on units Generation Unit Load Compressor Load allocation	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit # 1 41648031 4166826 238625	TATA POV JOJOBER/ 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891	3750.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT DO AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018 384048	TO: 305921 bus for allocation Unit # 4 68362735 6393739 391688	76100 75500 107300 01-Aug-19 12:60:00 3702648 107300 Unit # 5 76614151 6946444 438965	 AM Allocated lo Station 3152455 282174 18062 1073
CT FAN BUS A SIDE CT FAN BUS B SIDE COM COM ONTHLY GENERATION REPORT Eport Generated on: Total Station Load (C1 + C2 + C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176	TATA POV JOJOBER/ 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891 20964	3750.40 3781.40 4 inc 2 - CT fan bus VER COMPA A POWER PLANT O AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018 384048 22815	TO: 305921 bus for allocation Unit #4 68362735 6393739 391688 23269	76100 75500 107300 01-Aug-19 12:60:00 3702648 107300 Unit # 5 76614151 6946444 438965 26077	 AM ⇒ allocated lo Station 3152455 282174 18062 1073 282174
CT FAN BUS A SIDE CT FAN BUS B SIDE CT FAN BUS B SIDE Com ONTHLY GENERATION REPORT eport Generated on: Total Station Load (C1 + C2 + C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation Corrected Unit Load	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit # 1 41648031 4166826 238625 14176 4032553	TATA POV JOJOBER/ 1-Jul 19 12:00:0 0 AM Total st. Total con Unit #2 61591341 5056381 352891 20964 5322712	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 300 AM ation to unit tie load 1mon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477	305921 bus for allocation Unit #4 68362735 6393739 391688 23269 6217422	76100 75500 107300 01-Aug-19 12:00:00 3702648 107300 Unit #5 76614151 6946444 438965 26077 6900244 9:04	 AM Station 3152455 282174 18062 1073 282174 3.95 37026
CT FAN BUS A SIDE CT FAN BUS B SIDE COM ONTHLY GENERATION REPORT eport Generated on : Total Station Load (C1 + C2+ C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation CLPH load allocation Corrected Unit Load % Unit Consumption Allocated Station Load Station to unit consumption	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176 4032553 9.68 489168	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit #2 61591341 5056381 352891 20964 5322712 8.64 723408 0	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 20 AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477 8.57 787278	TO: 305921 bus for allocation Unit #4 68362735 6393739 391688 23269 6217422 9.09 802940	76100 75500 107300 107300 01-Aug-19 12:00:00 3702648 107300 Unit # 5 76614151 6946444 438965 26077 6900244 9:01 899855 305921	 AM Station 3152455 282174 18062 1073 282174 3.95 37026 3059
CT FAN BUS A SIDE CT FAN BUS B SIDE COM COM ONTHLY GENERATION REPORT Eport Generated on : Total Station Load (C1 + C2+ C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation COPP COMPANY Allocated Station Load Station to unit consumption Total station load for each unit	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176 4032553 9.68 489168	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891 20964 5322712 8.64 723408 0 723408	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 20 AM ation to unit tie load nmon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477 8.57 787278 0 787278	305921 bus for allocation Unit # 4 68362735 6393739 391688 23269 6217422 9.09 802940	76100 75500 107300 107300 01-Aug 19 12:00:00 3702648 107300 Unit #5 76614151 6946444 438965 26077 6900244 9.01 899855 305921 1205776	 ✓ allocated to Station 3152455 282174 18062 1073 282174 8.96 37026 3059 40085
CT FAN BUS A SIDE CT FAN BUS B SIDE CT FAN BUS B SIDE Com ONTHLY GENERATION REPORT Seport Generated on: Total Station Load (C1 + C2+ C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation COPPL Consumption Allocated Station Load Station to unit consumption Total station load for each unit % station load	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176 4032553 9.68 489168 0 489168	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891 20964 5322712 8.64 723408 0 723408	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 20 AM ation to unit tie load nmon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477 8.57 787278 0 787278	305921 bus for allocation Unit #4 68362735 6393739 391688 23269 6217422 9.09 802940 0 802940	76100 75500 107300 107300 01-Aug 19 12:00:00 3702648 107300 Unit #5 76614151 6946444 438965 26077 6900244 9.01 899855 305921 1205776	 AM Station 3152455 282174 18062 1073 282174 8 9! 37026 3059 40085 1.27
CT FAN BUS A SIDE CT FAN BUS B SIDE COM COM COM CONTHLY GENERATION REPORT Export Generated on: Total Station Load (C1 + C2+ C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation COPPL Consumption Allocated Station Load Station to unit consumption Total station load for each unit % station load Total Aux. consumed by unit	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176 4032553 9.68 489168 0 489168 1,17% 4521721	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891 20964 5322712 8.64 723408 0 723408 1.17% 6046119	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 00 AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477 8.57 787278 0 787278 1.17% 6531755	305921 bus for allocation Unit #4 68362735 6393739 391688 23269 6217422 9.09 802940 0 802940 1.17% 7020362	76100 75500 107300 107300 01-Aug 19 12:00:00 3702648 107300 Unit #5 76614151 6946444 438965 26077 6900244 9:01 899855 305921 1205776 1.57% 8106019	Station 3152455 282174 18062 1073 282174 8.99 37026 3059 40085 1.27 322259
CT FAN BUS A SIDE CT FAN BUS B SIDE COM COM COM CONTHLY GENERATION REPORT Eport Generated on : Total Station Load (C1 + C2+ C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation CLPH load allocation Corrected Unit Load % Unit Consumption Allocated Station Load Station to unit consumption Total station load for each unit % station load Total Aux. consumed by unit	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176 4032553 9.68 489168 0 489168 1,17% 4521721 10.86%	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891 20964 5322712 8.64 723408 0 723408 1 17% 6046119	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 30 AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477 8.57 787278 0 787278 1.17% 6531755 9.74%	305921 bus for allocation Unit #4 68362735 6393739 391688 23269 6217422 9.09 802940 0 802940 1.17% 7020362 10.27%	76100 75500 107300 107300 01-Aug-19 12:00:00 3702648 107300 Unit #5 76614151 6946444 438965 26077 6900244 9.04 899855 305921 1205776 1.57% 8106019	Station 3152455 282174 18062 1073 282174 8.95 37026 3059 40085 1.27 322259
CT FAN BUS A SIDE CT FAN BUS B SIDE COM COM COM CONTHLY GENERATION REPORT EPORT Generated on: Total Station Load (C1 + C2 + C5) Total Compressor load on units Generation Unit Load Compressor Load allocation CLPH load allocation COPPH load a	3674.30 3705.90 mon Load on CLI FROM: 0 01-Aug-19 12:00:0 4008569 1806217 Unit #1 41648031 4166826 238625 14176 4032553 9.68 489168 0 489168 1,17% 4521721	TATA POV JOJOBERA 1-Jul-19 12:00:0 0 AM Total st. Total con Unit # 2 61591341 5056381 352891 20964 5322712 8.64 723408 0 723408 1.17% 6046119	3750.40 3781.40 3781.40 + inc 2 - CT fan bus VER COMPA A POWER PLANT 00 AM ation to unit tie load mon load on CLPH Unit #3 67029334 5654018 384048 22815 5744477 8.57 787278 0 787278 1.17% 6531755	305921 bus for allocation Unit #4 68362735 6393739 391688 23269 6217422 9.09 802940 0 802940 1.17% 7020362	76100 75500 107300 107300 01-Aug 19 12:00:00 3702648 107300 Unit #5 76614151 6946444 438965 26077 6900244 9:01 899855 305921 1205776 1.57% 8106019) AM < allocated lo

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT 2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load. for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters plus

01-Aug-19 12:00:00 AM

Signature

Date & Time

Name: Mr.Boban Chacko, Ms Usha Agrawal, Ms. Suchismita Nayak

Signature

Date & Time

01-Aug-19 12:00:00 AM

0.6 % of generation as transformer losses is considered as unit load. Total station load is calucluated from the station I/C of C1,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

FROM:

01-Aug-19 12 00:00 AM

TO:

Sheet 1 of 2 01-Sep-19 12:00:00 AM

Report Generated on :	01-Sep-19 12:00	00 AM	yrendenter follogikke		01 Gep 44 12 00.0	
FEEDER NAME	INITIAL R	EADINGS	FINAL RE	ADINGS	DIFFE	ENCE
	ביהמחיד שואט	KING INDOOR	MINIU EVENOT	MANUT INTO SET	Lwareveae	Zisa i isanon-
GENERATION	INIVITEAPURI	KWH IMPORT	KWH EXPORT	KWH IMPORT	INWH EXPURI	KWH IMPORT
PML- GEN # 1 (Check)	1549754444	0	1590400376	l o	40645932	T (
PML- GEN # 2 (Check)	3502849658					
PML- GEN # 3 (CHECK)	4461862351					
PML- GEN # 4 (CHECK)	11208859096					
PML- GEN # 5	7073935755	188		 		
			Total	Generation (PML)	308378683	
PML- GEN # 1 (G1R)	7987034891	340	8027338415	340	40303524	(
PML- GEN # 2 (G2B)	13311564340			 	60501501	
PML- GEN # 3 (G3B)	13601930631					·
PML GEN #4 (G4B)	11264051862		· · · · · · · · · · · · · · · · · · ·			
PML GEN # 5 (G5B)	7072705274	1507				
EXPORT	Nice of Continue Section (Notes)	######################################	i otai G	ieneration (Alpha)	307559743	The state of the second section of the second
PML- LINE # 1	8394508699	214369	8438635222	044200	1440croo	
PML- LINE # 2	0394506699	214369			 	<u> </u>
PML- LINE # 3	7721751452			-	 	
PML- LINE # 4	2754670386	25		†		
PML-LINE#5	4064730257	9975643				ļ
PML- LINE # 6	1468797890				· · · · · · · · · · · · · · · · · · ·	
PML-LINE#7	842075008					
PML- LINE #8	740117888	38821884	 			·
PML- LINE # 9	2509654229	40	2533070347	40	23416118	0
		,		tal 132 KV export	· · · · · · · · · · · · · · · · · · ·	
PML- 33 kV ST1	2480672566				 	
PML- 33 kV ST2	2093339840	8755				·
PML- 33 kV ST3	0	0	L			
D85: 420 13/ CT4	0050004400	552050		Total 33 KV export		
PML- 132 kV ST1	2650384186	663969				
PML- 132 kV ST2 PML- 132 kV ST3	2181047097 1697712920	375613 1932270			·	
FWE- 132 RV 313	1037712320	1332210	1713313320	ST 132 KV total	29735469	
PML- 6.6 kV C1 (T1C)	17073170	866	18614293	· · · · · · · · · · · · · · · · · · ·	 	
PML- 6.6 kV C2 (T2C)	48402117	_				
PML- 6.6 kV C5 (T3C)	94049064					
	· 		Total 6	.6 KV station load	4200055	
PML- 132 kV GT1 (G1A)	7026874188	8387				13
PML- 132 kV GT2 (G2A)	0		0	46659	10997270	
PML- 132 kV GT3 (G3A)	12450537309		· · · · · · · · · · · · · · · · · · ·		56741394	16
PML- 132 kV GT4 (G4A)	8197822355				 	· · · · · · · · · · · · · · · · · ·
PML- 132 kV ICT1 (G5A)	4701855376	391		L		
DMI 0.01/1/04 to 1144 (TITE 114)	AT0000		·	Fexport at 132 KV		
PML - 6.6 KV C1 to U1A (TIE-U1) T1	2782277					ļ <u> </u>
PML - 6.6 KV C2 to U1B (TIE U1) T2 PML - 6.6 KV C3 to U2A (TIE U2) T3	49489910	380195 73	1			
PML - 6.6 KV C4 to U2B (TIE U2) T4	3415811 9132807	73 52			<u> </u>	
PML - 6.6 KV C3 to U3A (TIE U3)T5	6167915	349			<u> </u>	
PML - 6.6 KV C4 to U3B (TIE U3) T6	1682341	91		· · · · · · · · · · · · · · · · · · ·		
PML - 6.6 KV C2 to C6 (TIE U4) T7	11082746	35514523				
PML - 6.6 KV C5 to C7 (TIE U4) T8	15474693					
PML - 6.6 KV C1to C8 (TIE U5) T9	33537319					
PML - 6.6 KV C5 to C9 (TIE U5) T10	33099459			·		
PML - 6.6 KV C6 to U4A (TIE U3)T5	3459626	30	3459626	30		· · · · · · · · · · · · · · · · · · ·
PML - 6.6 KV C7 to U4B (TIE U3) T6	3234678			· · · · · · · · · · · · · · · · · · ·		(
PML - 6.6 KV U1A (Unit I/C U1)	86058674					
PML - 6.6 KV U1B (Unit I/C U1)	6557953	99				
PML - 6.6 KV U2A (Unit I/C U2)	92248280	31			· · · · · · · · · · · · · · · · · · ·	1
PML - 6.6 KV U2B (Unit I/C U2)	43774883					
PML - 6.6 KV U3A (Unit I/C U3)	65878835			·····		
PML - 6.6 KV U3B (Unit I/C U3)	36857723		ļ		+	
PML - 6.6 KV U4A (Unit I/C U4)	98526295	55 62				
PML - 6.6 KV U4B (Unit I/C U4) PML - 6.6 KV U5A (Unit I/C U5)	74118766 1117507					
LINE - 0/0 KA OSM (OHE NO OS)	111/00/	9	3330045	<u> </u>	L 4041138	<u>'</u>

PML - 6.6 KV U5B (Unit I/C U5)	5775052	7	9624808	7	3849757	0
C1 - BPRS 6.6 KV Feeder F1	653.10	Ō	676.20	0	23100	0
BPRS - Jemco reveocery F2	1605,16	0	1606,39	0	1230	0
		Total	consumption by unit	bus from Station	343946	0
(F1-F2) ,IF F1 > F2, (F1-F	2) will be deduc	ted from total sta	ition load, else adde	d to station Load	21870	
	O/G feeder readi	ngs as reported l	by TSL			
Telco feeder at Telco end	1176102		1187984		11882000	
Cummins feeder at Cummins end	10726		12408		1682000	AND THE PROPERTY OF THE PROPER
Lafarge feeder at Lafarge end	92153		104449		12296000	A A STATE OF THE PROPERTY OF T
	132 KV Jine 9	and 6 secure me	eter readings as note	ed by TSL		A STATE OF THE STA
Lin # 6 SECURE METER Reading	1144264	1158645	17257200	MF 1200000		
Lin # 9 SECURE METER Reading	2624.99			MF 1000000		And the state of t
		Reactive Gene	ration Readings			
	KVARH	MVAR				
Generator # 1 reactive	24436736	32.85	Generator # 4 reacti	ve	39725568	53.39
Generator # 2 reactive	26547200	35.68	Generator # 5 reacti	ve	33507328	45.04
Generator # 3 reactive	28419584	38.20				
		Compress	or Readings			
	Initial R	eadings	Final Re	adings	Net Rea	dings
	KWH Del	eadings KWH Rec	Final Re KWH Del	adings KWH Rec	Net Rea Net KWH Del	dings Net KWH Rec
Air Comp 1A (U1A Bus)	KWH Del				Net KWH Del	
Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus)	KWH Del	KWH Rec 2	KWH Del	KWH Rec	Net KWH Del 134469	
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus)	KWH Del 13380111 13528254 1013988	KWH Rec 2	KWH Del 13514580	KWH Rec 2	Net KWH Del 134469 196987	Net KWH Rec 0
Air Comp 1B (U1B Bus)	KWH Del 13380111 13528254 1013988	KWH Rec 2 2 2 20	KWH Del 13514580 13725241	KWH Rec 2	Net KWH Del 134469 196987 234151	Net KWH Rec 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus)	KWH Del 13380111 13528254 1013988	2 2 20 8	KWH Del 13514580 13725241 1248139	KWH Rec 2 2 20	Net KWH Del 134469 196987 234151	Net KWH Rec 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus)	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328	2 2 2 20 8 0 1680	KWH Del 13514580 13725241 1248139 18415411	KWH Rec 2 2 20 8	Net KWH Del 134469 196987 234151 269876	Net KWH Rec 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362	2 2 2 20 8 0 1680	KWH Del 13514580 13725241 1248139 18415411 72848311	2 2 2 20 8 0	Net KWH Del 134469 196987 234151 269876 477428	Net KWH Rec 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus)	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328	2 2 2 20 8 0 1680	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604	KWH Rec 2 2 20 8 0 1680 2 3727	Net KWH Del 134469 196987 234151 269876 477428 22208	Net KWH Rec 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362	2 2 20 8 0 1680 2 3727	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604	KWH Rec 2 2 20 8 0 1680 2	Net KWH Del 134469 196987 234151 269876 477428 22208 544581	Net KWH Rec 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus)	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362 35111450	2 2 2 2 2 2 3 7 2 7 2 2 3 7 2 7 2 2 3 7 2 7 2	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604	KWH Rec 2 2 20 8 0 1680 2 3727	Net KWH Del 134469 196987 234151 269876 477428 22208 544581 333154	Net KWH Rec 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362 35111450	2 2 20 8 0 1680 2 3727	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604	KWH Rec 2 2 20 8 0 1680 2 3727	Net KWH Del 134469 196987 234151 269876 477428 22208 544581 333154	Net KWH Rec 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362 35111450	2 20 8 0 1680 2 3727 CLPH unit #	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604 10203.21 7437.04	KWH Rec 2 2 20 8 0 1680 2 3727	Net KWH Del 134469 196987 234151 269876 477428 22208 544581 333154 2212854	Net KWH Rec 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362 35111450	2 2 20 8 0 1680 2 3727	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604 10203.21 7437.04 3825.34	KWH Rec 2 2 20 8 0 1680 2 3727	Net KWH Del 134469 196987 234151 269876 477428 22208 544581 333154 2212854 546666666666666666666666666666666666	Net KWH Rec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE CT FAN BUS B SIDE	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362 35111450	2 20 8 0 1680 2 3727 CLPH unit r	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604 11 1841818888888888888888888888888888	KWH Rec 2 20 8 0 1680 2 3727 Toatal Comp Load	Net KWH Del 134469 196987 234151 269876 477428 22208 544581 333154 2212854 163208 89842 74938 74380	Net KWH Rec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE CT FAN BUS B SIDE	KWH Del 13380111 13528254 1013988 18145535 72370883 17333328 26742362 35111450	2 20 8 0 1680 2 3727 CLPH unit r	KWH Del 13514580 13725241 1248139 18415411 72848311 17355536 27286943 35444604 10203.21 7437.04 3825.34	KWH Rec 2 20 8 0 1680 2 3727 Toatal Comp Load	Net KWH Del 134469 196987 234151 269876 477428 22208 544581 333154 2212854 546666666666666666666666666666666666	Net KWH Rec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Sheet 2 of 2
MONTHLY GENERATION REPORT FROM: 01-Aug-19 12:00:00 AM TO: 01-Sep-19 12:00:00 AM
Report Generated on : 01-Sep-19 12:00:00 AM

Total Station Load (C1 + C2+ C5)	4178185	Total sta	ation to unit tie load	343946	3834239	< allocated load
Total Compressor load on units	1942978	Total com	mon load on CLPH	bus for allocation	103732	i
	Unit#1	Unit#2	Unit #3	Unit # 4	Unit#5	Station
Generation	40303524	60501501	62293340	70077309	74384070	307559743
Unit Load	4131001	4880229	5523364	6541572	7117199	28193365
Compressor Load allocation	254613	382212	393532	442706	469914	1942978
CLPH load allocation	13593	20406	21010	23635	25088	103732
Corrected Unit Load	3964020	5048696	5460478	6441125	7279047	28193365
% Unit Consumption	9.84	8.34	8.77	9:19	9,79	9.17%
Allocated Station Load	502450	754251	776589	873629	927320	3834239
Station to unit consumption	46802	0	0	0	297144	343946
Total station load for each unit	549252	754251	776589	873629	1224464	4178185
% station load	1.36%	1.25%	1.25%	1.25%	1.65%	1.36%
Total Aux. consumed by unit	4513272	5802947	6237067	7314754	8503511	32371550
% of Aux. Consumption	11.20%	9.59%	10.01%	10.44%	11.43%	10.53%
Deemed PLF	98.25%	100.00%	100.00%	100.00%	97.91%	
PLF%	80.25%	67.77%	69.77%	78.49%	83.32%	75.50%

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr A Arif

Name: Mr.Boban Chacko, Ms. Şuğhismita Nayak

Signature Coult

Signature

Date & Time

01-Sep-19 12:00:00 AM

Date & Time

01-Sep-19 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT'2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load. for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters plus

0.6 % of generation as transformer losses is considered as unit load. Total station load is caluctuated from the station I/C of C!,C2,C5 ie, T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

FROM:

01-Sep-19 12:00:00 AM

TO:

Sheet 1 of 2 01-Oct-19 12:00:00 AM

Report Generated on : 01-Oct-19 12:00:00 AM

FEEDER NAME	INITIAL R	EADINGS	FINAL READINGS		DIFFERENCE		
						nur - a de la la casa	
	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	
GENERATION PML- GEN # 1 (Check)	1590400376		4000047404		4004=040		
PML- GEN # 2 (Check)	3563685062						
PML- GEN # 3 (CHECK)	4524410238	146	0022121010			0	
PML- GEN # 4 (CHECK)	11278697589	23366			·	0	
PML- GEN # 5	7148446722	206				0	
				Generation (PML)		0	
PML- GEN # 1 (G1B)	8027338415	340	· · · · · · · · · · · · · · · · · · ·	340		0	
PML- GEN # 2 (G2B)	13372065841	469				0	
PML- GEN # 3 (G3B)	13664223971	544					
PML GEN#4 (G4B)	11334129170	376	11404319848	376		0	
PML GEN # 5 (G5B)	7147089344	1525				.0	
			Total G	eneration (Alpha)	301133013		
EXPORT			APPROXICE CONTRACTOR STATES				
PML- LINE # 1	8438635222	214369		214369		0	
PML LINE # 2	7704005440		- · · · · · · · · · · · · · · · · · · ·			0	
PML-LINE#3 PML-LINE#4	7764225112					0	
PML- LINE # 5	2791268711 4091737079	49814 10013319		49815		1	
PML- LINE # 6	1485970051	752				47895	
PML- LINE # 7	848734144					0	
PML- LINE # 8	747059200	38821892				0	
PML- LINE # 9	2533070347	40				0	
	.1			tal 132 KV export		47895	
PML- 33 kV ST1	2493165868	2628		,,	·	0	
PML- 33 kV ST2	2093339840	8755	2093339840	8755		0	
PML- 33 kV ST3	0	148	0	148	0	. 0	
				otal 33 KV export	13191253	0	
PML- 132 kV ST1	2664211984			663969	14373944	0	
PML- 132 kV ST2	2181147762					157090	
PML- 132 kV ST3	1713519926	1948427	1729548074			0	
PML- 6.6 kV C1 (T1C)	40044000		2222224	ST 132 KV total	30402092	0	
PML- 6.6 kV C2 (T2C)	18614293 48528177				· · · · · · · · · · · · · · · · · · ·	0	
PML- 6.6 kV C5 (T3C)	96553354	186					
T INIL- 0.0 KV 00 (100)	3000004	100		6 KV station load		0	
PML- 132 kV GT1 (G1A)	7063046711	8400	***** · · · · · · · · · · · · · · · · ·	8400		0	
PML- 132 kV GT2 (G2A)	0			<u>-</u>		0	
PML- 132 kV GT3 (G3A)	12507278703				· · · · · · · · · · · · · · · · · · ·	0	
PML- 132 kV GT4 (G4A)	8261240959	17972				. 0	
PML- 132 kV ICT1 (G5A)	4769339436	1031	4836280496	1031	66941060	0	
	-,			export at 132 KV	230844624	0	
PML - 6.6 KV C1 to U1A (TIE-U1) T1	2803341	10		. 0		-10	
PML - 6.6 KV C2 to U1B (TIE U1) T2	49515648						
PML - 6.6 KV C3 to U2A (TIE U2) T3	3415811			73			
PML - 6.6 KV C3 to U2B (TIE U2) T4	9132807	52		52		0	
PML - 6.6 KV C3 to U3A (TIE U3)T5 PML - 6.6 KV C4 to U3B (TIE U3) T6	6167915 1682341	349 91		349		0	
PML - 6.6 KV C2 to C6 (TIE U4) T7	11290455	35514523		91 35514523		0	
PML - 6.6 KV C5 to C7 (TIE U4) T8	16252615	15291909		35514523 15291909			
PML - 6.6 KV C1to C8 (TIE U5) T9	33659674	4012928		4012932		4	
PML - 6.6 KV C5 to C9 (TIE U5) T10	33274248	325		325		0	
PML - 6.6 KV C6 to U4A (TIE U3)T5	3459626	30		30	· · · · · · · · · · · · · · · · · · ·	0	
PML - 6.6 KV C7 to U4B (TIE U3) T6	3234678	8		8		0	
PML - 6.6 KV U1A (Unit I/C U1)	88007123	3	· · · · · · · · · · · · · · · · · · ·	3		. 0	
PML - 6.6 KV U1B (Unit I/C U1)	8667955	99	10836524	99		0	
PML - 6.6 KV U2A (Unit I/C U2)	94919238	31	97759316	· 31	2840078	. 0	
PML - 6.6 KV U2B (Unit I/C U2)	45621145	104		104		0	
PML - 6.6 KV U3A (Unit I/C U3)	68878290	28		28			
PML - 6.6 KV U3B (Unit I/C U3)	9146367	213		213		0	
PML - 6.6 KV U4A (Unit I/C U4)	101077671	55		55		0	
PML - 6.6 KV U4B (Unit I/C U4)	77688498	62		62			
PML - 6.6 KV U5A (Unit I/C U5)	3938645	9	6872512	0	2933867	-9	

PML - 6.6 KV U5B (Unit I/C U5)	9624808	7	3060775	5	3435967	-7
C1 - BPRS 6.6 KV Feeder F1	676.20	0	676,20	0	(0
BPRS - Jemco reveocery F2	1606.39	0	1633.14	0	26750	0
		Total	consumption by uni	t bus from Station	243503	-6
(F1-F2) ,iF F1 > F2, (F1-	F2) will be deduc	ted from total st	ation load, else adde	ed to station Load	-26750	
	O/G feeder read	ngs as reported	by TSL			
Telco feeder at Telco end	1187984		1199817		11833000	
Cummins feeder at Cummins end	12408		14056		1648000	
Lafarge feeder at Lafarge end	104449	The state of the s	118427		13978000	
	132 KV line 9	and 6 secure m	eter readings as not	ed by TSL	endikoja (flagiguaraka)	
Lin # 6 SECURE METER Reading	1158645			MF 1200000	erbayan Aying Aste	GRANCE CHARLE
Lin # 9 SECURE METER Reading	2648.57			MF 1000000	un de se de la companya de la companya. Tan Problem de la companya de la co	
Basinera (Susa Asiya Dagasis Gulinga	a Serak erek iga	Reactive Gene	ration Readings			
	KVARH	MVAR	1087717041202,000		Mirist Stations	ANG Sarang Alije Ulije
Generator # 1 reactive	25291264	35.13	Generator # 4 reactive		38688256	53,73
Generator # 2 reactive	19393536	26.94	Generator # 5 reactive		34369536	
Generator # 3 reactive	24874496	34.55	VERNORE ENGINEERING TO THE STREET OF WAY			initention Colleges
经存款 经收益法 医多种性性	r Signal (juga ga	Compress	or Readings			
	Initial R	eadings	Final Re	adings	Net Rea	dings
	KWH Del	KWH Rec	KWH Del	KWH Rec	Net KWH Del	Net KWH Rec
Air Comp 1A (U1A Bus)		2	13647391	2	132811	0
Air Comp 1B (U1B Bus)		2	13853290	2	128049	0
Air Comp 2A (U2A Bus)			1541280	20	293141	0
Air Comp 2B (C3 Bus)	·	8	18545265	8	129854	0
Air Comp 2C (U3A Bus)		O.	73361565	0	513254	0
Air Comp 4A (U 4A Bus)		1680	17829579	1680	474043	0
** Air Comp 4B (U 4B Bus)		2	27353573	2	66630	0
Air Comp 5B (U5B Bus)	35444604	3727	35444604	3727	0	0
ESSISTED TO THE PROPERTY OF TH				oatal Comp Load	1737782	
		CLPH unit #	1 Readings		5.6.6.6.6.6.0.	s salawa arasa
CLPH INC 1	10203.21		10349.40		146192	
CLPH INC 2			7519.20		82158	
CT FAN BUS A SIDE			3894.00		68662	
CT FAN BUS B SIDE			3924.00		68220	
Com						
	imon Load on Cl	.PH Unit 1 (inc1	+ inc 2 - CT fan bus	A - CT fan bus B)	91468	

MONTHLY GENERATION REPORT Report Generated on:	FROM: 01-Oct-19 12:00	01-Sep-19 12:00 :00 AM	:00 AM	TO;	01-Oct-19 12:00:0	Sheet 2 of 2 O AM
	y in passing the			Abayanda		
Total Station Load (C1 + C2+ C5)	3523676		ation to unit tie load		3280173	< allocated loa
Total Compressor load on units	1607928		ттоп load ол CLPH	bus for allocation	91468	
医抗性性 医经济 化二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	Unit # 1.		Unit#3	Unit#4	Unit#5	Station
Generation	39926763	58565236	58780194	70190678	73670142	301133013
Unit Load	4094093	5033807	5258472	6490615	6811855	27688842
Compressor Load allocation	213193	312715	313862	374790	393369	1607928
CLPH load allocation	12128	17789	17854	21320	22377	91468
Corrected Unit Load	3967085	5071170	5076935	6346052	7227601	27688842
% Unit Consumption	9.94	8.66	8.64	9.04	9.81	9.19%
Allocated Station Load	434913	637938	640279	764571	802472	3280173
Station to unit consumption	0	0	0	0	243503	243503
Total station load for each unit	434913	637938	640279	764571	1045975	3523676
% station load	1,09%	1.09%	1.09%	1 09%	1.42%	1.17%
Total Aux. consumed by unit	4401998	5709108	5717214	7110623	8273576	31212518
% of Aux. Consumption	11.03%	9.75%	9.73%	10.13%	11.23%	10.37%
Deemed PLF	100.00%	100.00%	100.00%	100,00%		10.0170
PLF%	82.15%	67,78%	68.03%		,,,	76,39%
PLF%;	82.15%	67,78%	68.03%	81.24%	85.27%	76.3

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr A Arif

Name: Mr.Boban Chacko, Ms. Suchismita Nayak

Signature Could

Signature 1/sha Agyan

Date & Time

01-Oct-19 12:00:00 AM

Date & Time

01-Oct-19 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT'2011. For Unit 1,2 and 3 the unit laux, calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load, for Unit 4 and 5 Unit 1/C load recorded by 6,6 KV end meters plus

0.6 % of generation as transformer losses is considered as unit load. Total station load is calucluated from the station I/C of C1,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT FROM: 01-Oct-19 12:00:00 AM

Report Generated on: 01-Nov-19 12:00:00 AM

TO:

Sheet 1 of 2 01-Nov-19 12:00:00 AM

Report Generated on :	01-Nov-19 12:00:00 AM							
FEEDER NAME	INITIAL F	EADINGS	FINAL RE	ADINGS	DIFFER	ENCE		
	KINH EXPORT	KWH IMPORT	KINH EYDODT	KWH IMPORT	KWH EXPORT	MAIL IMPORT		
GENERATION					LAND CAPUS	KWH IMPORT		
PML- GEN # 1 (Check)	1630647424	0	1673192327	0	42544903	l c		
PML- GEN # 2 (Check)	3622721879							
PML- GEN # 3 (CHECK)	4583402570	<u> </u>						
PML- GEN # 4 (CHECK)	11348620018							
PML- GEN # 5	7222242932				·			
				Generation (PML)				
PML- GEN # 1 (G1B)	8067265178	340						
PML- GEN # 2 (G2B)	13430631076							
PML- GEN # 3 (G3B)	13723004165							
PML GEN #4 (G4B)	11404319848	·						
PML GEN # 5 (G5B)	7220759486							
``		1		eneration (Alpha)				
EXPORT					ZOTOTO OTOTO CONTINUES			
PML- LINE # 1	8478493380	214369	8520836834	214369	42343454	C		
PML- LINE # 2	0				+	+·		
PML- LINE # 3	7802445582							
PML- LINE # 4	2827177001							
PML- LINE # 5	4122866564				28946713			
PML- LINE # 6	1503341986	752						
PML- LINE # 7	856452928				9566976			
PML- LINE # 8	755036096	38821892			9813824			
PML- LINE # 9	2557096718	40	2580371233	40		· · · · · · · · · · · · · · · · · · ·		
			To	tal 132 KV export	252954291			
PML- 33 kV ST1	2506357121	2628			10767810	·		
PML- 33 kV ST2	2093339840	8755	2093910016	8755	570176			
PML- 33 kV ST3	0	148	0	148	0	O		
			T	otal 33 KV export	11337986	0		
PML- 132 kV ST1	2678585927		2690580211	663969	11994284			
PML- 132 kV ST2	2181147762	665307	2181794564	813185	646802	147878		
PML- 132 kV ST3	1729548074	1948427	1742266002	1948436	12717928	9		
			·	ST 132 KV total	25359013	147887		
PML- 6.6 kV C1 (T1C)	20028313			866	1428892	0		
PML- 6.6 kV C2 (T2C)	48528177	93783			115187	4		
PML- 6.6 kV C5 (T3C)	98607666	186			1964196			
				.6 KV station load	3508275			
PML- 132 kV GT1 (G1A)	7098879381	8400				5		
PML- 132 kV GT2 (G2A)	0					0		
PML- 132 kV GT3 (G3A)	12560771831				53898473	0		
PML- 132 kV GT4 (G4A)	8324821456		8393672159					
PML- 132 kV ICT1 (G5A)	4836280496	1031						
DAIL COLOUGA HAR (TIE HA) TA	1			export at 132 KV				
PML - 6.6 KV C1 to U1A (TIE-U1) T1	2803341			0				
PML - 6.6 KV C2 to U1B (TIE U1) T2	49515648	·		380195	· · · · · · · · · · · · · · · · · · ·			
PML - 6.6 KV C3 to U2A (TIE U2) T3	3415811	73		73				
PML - 6.6 KV C4 to U2B (TIE U2) T4	9132807	52		52				
PML - 6.6 KV C3 to U3A (TIE U3)T5	6167915			349	0			
PML - 6.6 KV C4 to U3B (TIE U3) T6	1682341	91		91	0			
PML - 6.6 KV C2 to C6 (TIE U4) T7 PML - 6.6 KV C5 to C7 (TIE U4) T8	11463327	35514523		35514523	247084			
PML - 6.6 KV C1to C8 (TIE U5) T9	16986950	15291909		15291909	520262	0		
PML - 6.6 KV C5 to C9 (TIE U5) T10	33760283 33417142	4012932		4012932	126272	0		
PML - 6.6 KV C6 to U4A (TIE U3) T5		325		383	250			
PML - 6.6 KV C7 to U4B (TIE U3) T6	3459626 3234678	30 8		30	0	0		
PML - 6.6 KV U1A (Unit I/C U1)	89853470	· · · · · · · · · · · · · · · · · · ·		8	2207426	C		
PML - 6.6 KV U1B (Unit I/C U1)	10836524	99		3	2297436	. 0		
PML - 6.6 KV U2A (Unit I/C U2)				99				
PML - 6.6 KV U2B (Unit I/C U2)	97759316 47463483	31	720659	31	2961343	<u> </u>		
PML - 6.6 KV U3A (Unit I/C U3)	71601516	104		104				
PML - 6.6 KV U3B (Unit I/C U3)	11491152	28 213		28	2633872	0		
PML - 6.6 KV U4A (Unit I/C U4)	3723263	213 55		213	2435241	0		
PML - 6.6 KV U4B (Unit I/C U4)	81112377	62		55	3797430			
PML - 6.6 KV U5A (Unit I/C U5)	· · · · · · · · · · · · · · · · · · ·			62				
FRIL - 0.0 AV USA (UNIT IIC US)	6872512	<u> </u>	9742041	<u> </u>	2869529	l		

PML - 6.6 K	(V U5B (Unit I/C U5)	3060775	0	5266085	0	2205310	C
C1 - BPRS	6.6 KV Feeder F1	676.20	0	676.20	0	0	
BPRS - Jen	nco reveocery F2	1633,14	Ö	1634.35	. 0	1210	C
				consumption by uni		172412	58
	(F1-F2) ,JF F1 > F2, (F1-F				d to station Load	-1210	
	33 KV	O/G feeder readi	ngs as reported	by TSL		iliya e e e e e e e e e e e e e e e e e e	
	er at Telco end	1199817		1208397		8580000	
	eeder at Cummins end	14056		15390		1334000	
Lafarge fee	eder at Lafarge end	118427		130647		12220000	
	i de la companyación de la compa	132 KV line 9	and 6 secure m	eter readings as not	ed by TSL		
	CURE METER Reading	1173061	1185914	15423600	MF 1200000		
Lin # 9 SEC	CURE METER Reading	2672.78	2696.22	23440000	MF 1000000		
			Reactive Gene	ration Readings		Aviatorum en en	
	-	KVARH	MVAR				
Generator #	# 1 reactive	25046016	33.66	Generator # 4 react	ive	41314304	55.53
_	# 2 reactive	21929472	29.48	Generator # 5 react	lve	36470784	49.02
Generator i							
Generator #		22092800	29.69				
		22092800		or Readings			
		nitia R	eadings €	Final Re	adings	Net Rea	dings
	# 3 reactive	initial R KWH Del	Compress eadings KWH Rec	CONTRACTOR OF THE PROPERTY OF	adings:	Net Rea Net KWH Del	dings Net KWH Rec
	# 3 reactive	Initial R KWH Del 13647391	Compress eadings KWH Rec 2	Final Re KWH Del 13939131			11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus)	initial R KWH Del	Compressive addings KWH Rec 2	Final Re KWH Del 13939131 13915702	KWH Rec	Net KWH Del	11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus)	Initial R KWH Del 13647391 13853290 1541280	Compress eadings KWH Rec 2 2 20	Final Re KWH Del 13939131 13915702	KWH Rec 2	Net KWH Del 291740 62412	11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus)	MH Del 13647391 13853290	Compress eadings KWH Rec 2 2 20 8	Final Re KWH Del 13939131 13915702 1924571	KWH Rec 2	Net KWH Del 291740 62412	Net KWH Rec 0 0
	Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus)	Initial R KWH Del 13647391 13853290 1541280 18545265 73361565	Compress eadings KWH Rec 2 20 8 0	Final Re KWH Del 13939131 13915702 1924571	KWH Rec 2 2 2 20	Net KWH Del 291740 62412 383291 192784	Net KWH Rec 0 0 0
	Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus)	Initial R KWH Del 13647391 13853290 1541280 18545265 73361565 17829579	Compress eadings KWH Rec 2 20 20 8 0 1680	Final Re KWH Del 13939131 13915702 1924571 18738049	XWH Rec 2 2 2 20 8	Net KWH Del 291740 62412 383291 192784	Net KWH Rec 0 0 0
	Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	Initial R KWH Del 13647391 13853290 1541280 18545265 73361565 17829579 27353573	Compress eadings KWH Rec 2 20 8 0 1680	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258	XWH Rec 2 2 20 30 3 0 1680 2	Net KWH Del 291740 62412 383291 192784 440286	Net KWH Rec
	Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus)	Initial R KWH Del 13647391 13853290 1541280 18545265 73361565 17829579	Compress eadings KWH Rec 2 20 8 0 1680	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499	XWH Rec 2 20 8 0 1680 2 3727	Net KWH Del 291740 62412 383291 192784 440286 422706	Net KWH Rec
	Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	Initial R KWH Del 13647391 13853290 1541280 18545265 73361565 17829579 27353573	Compress eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499	XWH Rec 2 2 20 30 3 0 1680 2	Net KWH Del 291740 62412 383291 192784 440286 422706 453685	Net KWH Rec
	Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2B (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus)	Initial R KWH Del	### Compress ### Co	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499	XWH Rec 2 20 8 0 1680 2 3727	Net KWH Del 291740 62412 383291 192784 440286 422706 453685 194674	Net KWH Rec
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1	Initial R KWH Del	Compress eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499 1 Readings	KWH Rec 2 2 2 2 2 3 1 6 3 2 3 7 2 3 7 2 3 3 3 3 3 3 3 3 3	Net KWH Del 291740 62412 383291 192784 440286 422706 453685 194674	Net KWH Rec
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2	Initial R KWH Del	Compress eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499 A Readings 10496.00 7651.00	2 20 8 0 1680 2 3727 Coatal Comp Load	Net KWH Del 291740 62412 383291 192784 440286 422706 453685 194674 2441578	Net KWH Rec
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2B (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE	Initial R KWH Del	Compress eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499 1 Readings	2 20 8 0 1680 2 3727 Coatal Comp Load	Net KWH Del 291740 62412 383291 192784 440286 422706 453685 194674 2441578	Net KWH Rec
	# 3 reactive Air Comp 1A (U1A Bus) Air Comp 1B (U1B Bus) Air Comp 2B (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE CT FAN BUS B SIDE	Initial R KWH Del	Compress eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 13939131 13915702 1924571 18738049 73801851 18252285 27807258 36759499 A Readings 10496.00 7651.00	Control Cont	Net KWH Del 291740 62412 383291 192784 440286 422706 453685 194674 2441578 146600 131800 83000	Net KWH Rec

MONTHLY GENERATION REPORT

FROM:

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TO:

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Report Generated on :

01-Nov-19 12:00:00 AM

Total Station Load (C1 + C2+ C5)	3509485	Total sta	tion to unit tie load	172412	3337073	< allocated load
Total Compressor load on units	2248794	Total com	mon load on CLPH I	bus for allocation	112400	
Name and a second of the secon	Unit#1	Unit#2	Unit #3	Unit#4	Unit#5	Station
Generation	42123867	61407810	58990093	76153161	69497389	308172321
Unit Load	4247095	5345258	5091620	7174165	6470000	28328138
Compressor Load allocation	307386	448105	430462	555705	507136	2248794
CLPH load allocation	15364	22397	21516	27775	25348	112400
Corrected Unit Load	4103293	5432469	5103312	6881254	6807810	28328138
% Unit Consumption	9.74	8.85	8.65	9.04	9,80	9.19%
Allocated Station Load	456142	664960	638780	824632	752559	3337073
Station to unit consumption	45890	0	0	0	126522	172412
Total station load for each unit	502032	664960	638780	824632	879081	3509485
% station load	1.19%	1.08%	1.08%	1.08%	1.26%	1.14%
Total Aux. consumed by unit	4605325	6097429	5742092	7705886	7686891	31837623
% of Aux. Consumption	10.93%	9.93%	9.73%	10.12%	11.06%	10.33%
Deemed PLF	98.42%	100.00%	100.00%	100.00%	93.52%	
PLF%	83.88%	68.78%	66.07%	85.30%	77.84%	75.65%

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr Gaurav

Name: Mr.Boban Chacko, Ms. Suchismita Nayak

Signature Date & Time

01-Nov-19 12:00:00 AM

Signature

Date & Time

01-Nov-19 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT 2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load . for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters plus

0.6 % of generation as fransformer losses is considered as unit load. Total station load is calucluated from the station I/C of CI,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

FROM:

01-Nov-19 12:00:00 AM

TO:

Sheet 1 of 2 01-Dec-19 12:00:00 AM

Report Generated on :	01-Dec-19 12:00	:00 AM				
FEEDER NAME	INITIAL R	EADINGS	FINAL RE	ADINGS	DIFFER	RENCE
	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT
GENERATION	process of the			J		Julius Jana Gitta
PML- GEN # 1 (Check)	1673192327	0	1716370048	0	43177721	
PML- GEN # 2 (Check)	3684248594		3747468141	0		
PML- GEN # 3 (CHECK)	4642608195	146	4708268116	146		
PML- GEN # 4 (CHECK)	11424486921					
PML- GEN # 5	7291858263					
				Generation (PML)		
PML- GEN # 1 (G1B)	8109389045	340	8152612602	340		
PML- GEN # 2 (G2B)	13492038887	469	13555080025	469		
PML- GEN # 3 (G3B)	13781994258		13847404341	544		
PML GEN#4 (G4B)	11480473009			376		
PML GEN # 5 (G5B)	7290256875					
	A CANCELLIA			eneration (Alpha)		
EXPORT						
PML- LINE # 1	8520836834	214369	8559245460	214369	38408626	larketine rec
PML- LINE # 2	0					
PML- LINE #3	7843785257					
PML- LINE # 4	2866567636					
PML- LINE # 5	4151813277					
PML- LINE # 6	1518705326			The state of the s	The state of the s	
PML- LINE # 7	866019904					
PML- LINE # 8	764849920					
PML- LINE # 9	2580371233					
FIVIL- LINE # 5	2500571255			tal 132 KV export		
PML- 33 kV ST1	2517124930	2628				
PML- 33 kV ST2	2093910016					
PML- 33 kV ST3	2093910016					
FWIL- 33 KV 313	•	140		Total 33 KV export		
PML- 132 kV ST1	2690580211	663969				
PML- 132 kV ST2	2181794564				The state of the s	
PML- 132 kV ST3	1742266002					
FIVIL- 132 KV 313	1742200002	1340430	1750445755	ST 132 KV total		
PML- 6.6 kV C1 (T1C)	21457205	866	22817516			
PML- 6.6 kV C2 (T2C)	48614770					
PML- 6.6 kV C5 (T3C)	571862					
PWL- 6.6 KV C5 (13C)	3/1002	100		.6 KV station load	The state of the s	
PML- 132 kV GT1 (G1A)	7136756153	8405	Y			
PML- 132 kV GT2 (G2A)	7136736133					
	12614670304					
PML- 132 kV GT3 (G3A)						
PML- 132 kV GT4 (G4A)	8393672159				8 00000000	
PML- 132 kV ICT1 (G5A)	4899307885	1052		1100 Fexport at 132 KV		
PML - 6.6 KV C1 to U1A (TIE-U1) T1	1 2020052	l 0				
	2828052					
PML - 6.6 KV C2 to U1B (TIE U1) T2	49536827		20 and 20			
PML - 6.6 KV C3 to U2A (TIE U2) T3	3415811					
PML - 6.6 KV C4 to U2B (TIE U2) T4	9132807			52		
PML - 6.6 KV C3 to U3A (TIE U3)T5	6167915					
PML - 6.6 KV C4 to U3B (TIE U3) T6	1682341			91		
PML - 6.6 KV C2 to C6 (TIE U4) T7	11710411		-			
PML - 6.6 KV C5 to C7 (TIE U4) T8	17507212					
PML - 6.6 KV C1to C8 (TIE U5) T9	33886555					
PML - 6.6 KV C5 to C9 (TIE U5) T10	33417392			534		
PML - 6.6 KV C6 to U4A (TIE U3)T5	3459626			30		
PML - 6.6 KV C7 to U4B (TIE U3) T6	3234678					
PML - 6.6 KV U1A (Unit I/C U1)	92150906					
PML - 6.6 KV U1B (Unit I/C U1)	12701653			99		
PML - 6.6 KV U2A (Unit I/C U2)	720659			31		
PML - 6.6 KV U2B (Unit I/C U2)	49478951					
PML - 6.6 KV U3A (Unit I/C U3)	74235388					
PML - 6.6 KV U3B (Unit I/C U3)	13926393	213	16395389	28	2468996	-18
PML - 6.6 KV U4A (Unit I/C U4)	7520693	55	11092476	55	3571783	
PML - 6.6 KV U4B (Unit I/C U4)	84032193	62	87065406	62	3033213	
PML - 6.6 KV U5A (Unit I/C U5)	9742041	0	547676	0	805635	

PML - 6.6 KV U5B (Unit I/C U5)	5266085	0	6440406	0	1174321	C
C1 - BPRS 6.6 KV Feeder F1	676.20	0	676.20		0	C
BPRS - Jemco reveocery F2	1634.35	0	1635.48	0	1130	0
		Total	consumption by unit	t bus from Station	235834	151
(F1-F2) ,IF F1 > F2, (F1-F	F2) will be deduc	ted from total st	ation load, else adde	d to station Load	-1130	
33 KV (D/G feeder readi	ngs as reported	by TSL			
Telco feeder at Telco end	1208397		1219174		10777000	11.2
Cummins feeder at Cummins end	15390		16811		1421000	
Lafarge feeder at Lafarge end	130647		146376		15729000	
	132 KV line 9	and 6 secure m	eter readings as not	ed by TSL		
Lin # 6 SECURE METER Reading	1185914	1197515	13921200	MF 1200000		
Lin # 9 SECURE METER Reading	2696.22	2719.96	23740000	MF 1000000		
		Reactive Gene	ration Readings			
	KVARH	MVAR				
Generator # 1 reactive	23351296	32.43	Generator # 4 react	ive	40418304	56.14
Generator # 2 reactive	21207040	29.45	Generator # 5 react	ive	10300928	14.31
Generator # 3 reactive	24843776	34.51				
		Compress	or Readings			
	Initial Readings Final Readings			Net Rea	dings	
	KWH Del	KWH Rec	KWH Del	KWH Rec	Net KWH Del	Net KWH Rec
Air Comp 1A (U1A Bus)	13939131	2	14093369	2	154238	
Air Comp 1B (U1B Bus)	13915702	2	14074907	2	159205	(
Air Comp 2A (U2A Bus)	1924571	20	2328881	20	404310	
Air Comp 2B (C3 Bus)	18738049	8	18974715	8	236666	
Air Comp 2C (U3A Bus)	73801851	0	74114799	0	312948	
Air Comp 4A (U 4A Bus)	18252285	1680	18565681	1680	313396	(
Air Comp 4B (U 4B Bus)	27807258	2	28165853	2	358595	(
Air Comp 5B (U5B Bus)	36759499	3727	36915150	3727	155651	(
				Toatal Comp Load	2095009	
		CLPH unit	#1 Readings			
		1	10623.00		127000	
CLPH INC 1	10496.00		100m0100			
CLPH INC 1 CLPH INC 2	10496.00 7651.00		7746.30		95300	
	100000000000000000000000000000000000000				95300 94800	
CLPH INC 2	7651.00		7746.30			

Total Station Load (C1 + C2+ C5)	3287779	Total station	Total station to unit tie load		2962800	< allocated load
Total Compressor load on units	1858343	Total comm	on load on CLPH bu	is for allocation	86500	
	Unit#1	Unit#2	Unit#3	Unit#4	Unit # 5	Station
Generation	43223557	63041138	65410083	82187834	23871505	277734117
Unit Load	4103540	5134357	5282597	7098123	2011810	23630426
Compressor Load allocation	289213	421814	437665	549926	159726	1858343
CLPH load allocation	13462	19634	20372	25597	7435	86500
Corrected Unit Load	4006271	5171495	5427686	7001655	2023320	23630426
% Unit Consumption	9.27	8.20	8.30	8.52	8.48	8.51%
Allocated Station Load	461098	672508	697779	876760	254655	2962800
Station to unit consumption	43540	0	0	0	192294	235834
Total station load for each unit	504638	672508	697779	876760	446949	3198634
% station load	1.17%	1.07%	1.07%	1.07%	1.87%	1.15%
Total Aux. consumed by unit	4510909	5844002	6125464	7878415	2470269	26829060
% of Aux. Consumption	10.44%	9.27%	9.36%	9.59%	10.35%	9.66%
Deemed PLF	100.00%	100.00%	100.00%	100.00%	29.44%	
PLF%	88.94%	72.96%	75.71%	95.12%	27.63%	70.46%

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr Gauran S . Vaniba

Name: Mr.Boban Chacko, Ms. Biswajirt Mohanty

Signature Courton

Signature Signature

Date & Time

01-Dec-19 12:00:00 AM

Date & Time

01-Dec-19 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT 2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load. for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters plus 0.6

JM/12/2020. DE-18-01-2020

Through: Chief (O&M)

Generation Details for the Month of December'19

1. GENERATION (MWH)					UNIT	ACTI	JAL	PLAT	
1a. Generation from Unit#1 (67.					MWH	4027		37260.	
1b. Generation from Unit#2 - Re					MWH	5853		70464. 70656.	
1c, Generation from Unit#3 - Red 1d, Generation from Unit#4 (120		acity (120 MV	N)		MWH MWH	5660 8410		72422.	
1e, Total Generation from St		.5 MW)			MWH	23951		250802	
2. RUNNING HOURS (HRS)						ACT	de automorphism de de la composição	PLA	Terror services a decision access
2a. Running hours of Unit#1 (67	5 MW/	enterentation and secure		wiskiyesengesimesi	HOURS	744	Contract of the Contract of th	736.0) }
2b. Running hours of Unit#2 (12					HOURS	744		734.0	
2c. Running hours of Unit#3 (12					HOURS	744	0,1	736.) .
2d. Running hours of Unit#4 (12	0 MW)				HOURS	744	1.0	736.)
3. GENERATION AVAILABILI	TY (%)				* Average D	eclared Capa	icity (MW) e	meration Ava	ilability (9
3a. Generation Availability of Uni	it#2 (%)					108.00		100.00	1%
3b. Generation Availability of Uni	it#3 (%)					108.00		100.00	1%
		(Ava	ilability figures	are for full m	onth of 31 days	5)			
4. Export meter reading:					MWH				
	la. Power Export through 132 KV Feeders						265		
4b. Power Export through 33 KV 4c. Total Export	Feeders				MWH		148 2803		
4c, lotal export		(Ex	port meter read	dinas are as c	er PML Meters)	2005	30.50	
5. IMPORT METER READING	S (MWH)								
5a. Power Import					MWH				
6. AUX POWER CONSUMPTIO		ENTORIAL	(WW) #ERROD		MWH		418	11 1	
6a. Unit#1 Aux Power Consumpt 6b. Unit#2 Aux Power Consumpt					MWH			17.9	
6c. Unit#3 Aux Power Consumpt		MWH		540	77.1				
6d. Unit#4 Aux Power Consump	tion				MWH			5.6	
6e. Total Aux Power Consum		(C.,,t, 1		i in conita non	MWH		1.72	%	9.40
7. Ex Bus Generation (MWH)		(System Loss	es are nicioned	in units aux	liary power cor	isumpoon)			
7a, Ex-Bus Generation from Unit	#2 - Regula	sted Capacity	(120 MW)*		MWH		5342		A CONTRACTOR OF STREET
7b. Ex-Bus Generation from Unit	t#3 - Regula	ated Capacity	(120 MW)*		MWH		51196.62		
8.a COAL RECEIPT, CONSUM	PTION & S				30/50 convious66	Consumption			Closing
Item	Unit	Opening Stock *	Receipt	Unit#1	Unit#2	Unit#3	Unit #4	Total	Stock
Middling Coal (By Rake)	MT	22084,51	46797.46	18290.18	4052.23	0.00	15433.91	37776.32	31105.65
2 Prod(By Rake)	MT	7063,55	14007.32	0.00	1578.02	2506.01	0.00	4084.03	16986.84
Vinayak/GCL/Sandoz	MT	15256.04	29622.92	2382,66	6055.10	8597.23	13412,30	30447,29	14431,67
BCCL W IV+3 BCCL		24221,54	48608.23	0.00	7085.58	10897.64	0.00	17983.22	54846.55
CCL	МТ	0.00	20317.45	0.00	0.00	0.00	0.00	0.00	20317.45
ECL Shakti	MT	0.00	6437.02	0.00	0.00	0.00	0.00	0.00	6437.02
			3746.05	0.00	0.00	0.00	4085,46	4085.46	
ECL(1&4)	MT	960.18 8335.43	29482,10	0.00	11520.24	7330.87	0,00	18851.11	620.77 18966.42
ECL(2&3) NCL	мт	0.00	7884.97	1351.82	0.00	0.00	2613.00	3964.82	3920.15
WB REJECT	MT	23429,53	22632.71	3162.45	0.00	0.00	8254.72	11417.17	34645.07
Tailing	MT	39439,91	31793.55	3303.16	1611.24	2547.65	8346.37	15808.42	55425.04
Total Coal	MI	140790.69	261329.78	28490.27	31902.41	31879.40	52145.76	144417.84	257702.63
8.b LDO RECEIPT, CONSUME									
Item	Unit	Opening	Receipt			Consumption		,	Closing
		Stock	· ·	Unit#1	Unit#2	Unit#3	Unit #4	Total	Stock
LDO 9. RAW WATER CONSUMPTI	KL.	946.25	0.00	42.00	7.00	0.88	1.50	51.38	894.87
9a. Unit#1 Raw Water Consump					M ³	and the second	87	182	did there was an inter-
9b. Unit#2 Raw Water Consump					M ³			6710	
9c. Unit#3 Raw Water Consump			-		M ³	<u> </u>		2535	
9d, Unit#4 Raw Water Consum					M ³			2068	
9f. Total Raw Water Consum					M ³			8495	
10. FLY ASH UTILISATION (reasons as			
Nuvoco	MT	34500	Bricks	MT	0	Wet Disposa		MT	0
Dalmia Cement	MT	9215	RMC DEA Litilizad	MT MT	6325 61849	FA Generate		MT	61849
Ash Bagging Pond Ash Generated	MT	11809 15462	DFA Utilized Pond Ash Utili	MT MT	47054	Fly Ash Utili:		MT %	61849 100
r dria Asir derierateu		102	. 516 751 001	Pond 1	Pond 2	1,7,13,1,00			
Total capacity			MT	500364	373059				
Total ash in pond in last month			MT	371427	290627	_			
Total Ash Sent to Jemco Pond	P. clan fur-		MT	15462	0 47054	- '			
Cleaned during this month (dry Cleaned during this month (Wit			MT	0	47054 64048	-			
Ash Shifting to ISWP Site (With			MT	o o	1305	┪			
Total ash in pond after cleaning			MT	386889	243573				
% of ash in pond			%	77%	65%	Considering		otal ash sent to	pond at the
or can in portu			1 "	, , , ru	J 3370	1	rate of 34	170 MT/Day.	

wo or ash in pond

Note:

Declared capacity for units 2 & 3 are provisional and is liable to change based on Tata Steel's confirmation

Ex- Bus Generation of Regulated capacity of Units 2 & 3 has been considered with Actual Aux Power.

Coal Opening Stock includes the Third Party Stock.

LDO Opening Stock indicates Tata Power Stock only.

Fly Ash Utilization data is inclusive of Unit 5.

Vijayant Ranjan (CEO - IEL & Chief -Jamshedpur Operations)

Gai

Sheet 1 of 2 01-Jan-20 12:00:00 AM

IONTHLY GENERATION REPORT eport Generated on :	01-Jan-20 12:00:	MA 00			5:	NCE
FEEDER NAME		EADINGS	FINAL RE	ADINGS	DIFFER	-NCE
	MANU EVOORT	KWH IMPORT	KWH EXPORT	KWH IMPORT	KWH EXPORT	KWH IMPORT
	KWHEXPORT	KVVII IMI OKI	TOTAL EXAMPLE			
GENERATION	1716370048	0		T	40917845	
VIL- GEN # 1 (Check)	3747468141				58782570	
ML- GEN # 2 (Check)	4708268116		4765098119	146	56830003	
VIL-GEN#3 (CHECK) VIL-GEN#4 (CHECK)	11506385932			23366	83802549	
ML- GEN # 4 (CHECK)	7315771650					
WIL- GEN # 3	1 , , , , , , , , , , , , , , , , , , ,	I	Total	Generation (PML)		
ML- GEN # 1 (G1B)	8152612602	340	8192885448			
ML- GEN # 7 (G1B)	13555080025		13613612142			
ML- GEN # 3 (G3B)	13847404341		13904008008			
ML GEN # 4 (G4B)	11562660844		11646765273			
ML GEN # 5 (G5B)	7314128380		7402923862			
WE GEN # 8 (GSB)				Generation (Alpha	328308542	<u> </u>
EXPORT						fan Dan Eise
PML- LINE # 1	8559245460			214369		
PML- LINE # 1					42584908	
PML- LINE # 3	7880112492	106130	792096788			
PML- LINE # 4	2895891696					
PML- LINE # 4	419317923			4 1012727		
	153264446					
PML- LINE # 6 PML- LINE # 7	87369945	' 			····	
	77265446	·		2 3882189		
PML-LINE#8	260478406		0 263155162		0 26767564	
PML- LINE # 9	1 200470.000	<u> </u>	T	otal 132 KV expor	t 26552074	
DMI AG W/CT4	253062841	3 262	8 254546664	0 262	8 1483822	7
PML- 33 kV ST1	209391001	T		6 875	5	<u> </u>
PML- 33 kV ST2		0 14		0 14	8	<u> </u>
PML- 33 kV ST3		<u> </u>		Total 33 KV expo	rt 1483822	7
	270528016	7 66396	9 272137974	7 66396	9 1609958	
PML- 132 kV ST1	218179456			109385	50	0 146
PML- 132 kV ST2	175844975			194843	1732876	
PML- 132 kV ST3	170077010	.0	<u></u>	ST 132 KV tota	3342834	6 146
T141 0011/04 / T4C)	2281751	6 86	2429599	33 86	147847	7
PML- 6.6 kV C1 (T1C)	4861477			70 9378	37	0
PML- 6.6 kV C2 (T2C)	249820		36 41970		36 169887	8
PML- 6.6 kV C5 (T3C)	1 240020	, o	Tota	6.6 KV station loa	ad 317735	5
	717587617	70 84	· · · · · · · · · · · · · · · · · · ·			7
PML- 132 kV GT1 (G1A)	7 17 401 611	0 466		0 466	59	
PML- 132 KV GT2 (G2A)	126748101			08 28	89 5185500	7
PML- 132 kV GT3 (G3A)	84686424				72 7688304	11
PML- 132 kV GT4 (G4A)	49211675				00 815221	4
PML- 132 kV ICT1 (G5A)	49211013			GT export at 132 h	(V 2466471	9
	7 20500	72	0 29659	65	0 1060	92
PML - 6.6 KV C1 to U1A (TIE-U1) T1	28598 495485					
PML - 6.6 KV C2 to U1B (TIE U1) T2			73 34158		73	0
PML - 6.6 KV C3 to U2A (TIE U2) T3	34158	· · · · · · · · · · · · · · · · · · ·	52 91328		52	0
PML - 6.6 KV C4 to U2B (TIE U2) T4	91328		49 61679		49	0
PML - 6.6 KV C3 to U3A (TIE U3)T5	61679		91 16823		91	0
PML - 6.6 KV C4 to U3B (TIE U3) T6	16823		-			56
PML - 6.6 KV C2 to C6 (TIE U4) T7	118726					
PML - 6.6 KV C5 to C7 (TIE U4) T8	181570					
PML - 6.6 KV C1to C8 (TIE U5) T9	340787		342636			00
PML - 6.6 KV C5 to C9 (TIE U5) T10	334174		30 34596		30	0
PML - 6.6 KV C6 to U4A (TIE U3)T5	34596				8	0
PML - 6.6 KV C7 to U4B (TIE U3) T6	32346				3 17697	
PML - 6.6 KV U1A (Unit I/C U1)	942287				99 19790	
PML - 6.6 KV U1B (Unit I/C U1)	145530				31 26992	
PML - 6.6 KV U2A (Unit I/C U2)	35617		31 6260			
PML - 6.6 KV U2B (Unit I/C U2)	513172		104 52903			
PML - 6.6 KV U3A (Unit I/C U3)	76644		28 78697			
PML - 6.6 KV U3B (Unit I/C U3)	16395		28 18738		28 23426	
PML - 6.6 KV U4A (Unit I/C U4)	11092	476	55 13499		55 24070	
PML - 6.6 KV U4B (Unit I/C U4)	87065		62 91229		62 4163 0 3195	
			0 3743			

PML - 6.6 KV U5B (Unit I/C U5)	6440406	0	121752	0	3681346	0		
C1 - BPRS 6.6 KV Feeder F1	676.20	0	676.20	5	0	0		
BPRS - Jemco reveocery F2	1635.48	0	1636,68	1 - 0	1200	0		
		Total	consumption by unit	bus from Station	323878	0		
(F1-F2) ,JF F1 > F2, (F1-F				d to station Load	-1200			
33 KV (O/G feeder readir	igs as reported l	by TSL					
Telco feeder at Telco end	1219174		1231498	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12324000			
Cummins feeder at Cummins end	16811		18147		1336000			
Lafarge feeder at Lafarge end	146376		163358		16982000			
	132 KV line 9 and 6 secure meter readings as noted by TSL							
Lin # 6 SECURE METER Reading	1197515	1210328	15375600	MF 1200000	rewarright from the			
Lin # 9 SECURE METER Reading	2719.96	2747.73	27770000	MF 1000000				
		Reactive Gene	ration Readings					
	KVARH	MVAR						
Generator # 1 reactive	22314496	29.99	Generator # 4 reacti	ve	41030656	55.15		
Generator # 2 reactive	22052864	29.64	Generator # 5 reacti	ive	38924288	52.32		
Generator # 3 reactive	24160768	32.47		Marth from the co				
		Compress	or Readings					
	Initial R		Final Re		Net Rea	dings		
	KWH Del	KWH Rec	KWH Del	KWH Rec	Net KWH Del	Net KWH Rec		
Air Comp 1A (U1A Bus)		2		2	190160	0		
Air Comp 1B (U1B Bus)	14074907	2	14263919	2	189012	0		
Air Comp 2A (U2A Bus)			2764136	20	435255	0		
Air Comp 2B (C3 Bus)				. 8	228225	0		
Air Comp 2C (U3A Bus)			74333344	0	218545	0		
Air Comp 4A (U 4A Bus)	18565681	1680	18721920	1680	156239	0		
Air Comp 4B (U 4B Bus)			28562445			0		
Air Comp 5B (U5B Bus)	36915150	3727	37472686		557536	0		
	THE STATE OF THE S			Foatal Comp Load	2371564			
			#1 Readings					
CLPH INC 1	10623.00		10738.00		115000			
CLPH INC 2			7845.00		98700			
CT FAN BUS A SIDE			4116.00		44200			
CT FAN BUS B SIDE			4129.00		81000			
Construction of the Constr	COLUMN TO SERVICE PROPERTY OF THE SERVICE OF THE SE	LPH Unit 1 (inc1	+ inc 2 - CT fan bus	A - CT fan bus B)	88500			
p								
		TATA PO	NER COMPA	NY LIMITED				
•				•		•		

JOJOBERA POWER PLANT

						Sheet 2 of 2
MONTHLY GENERATION REPORT	FROM:	01-Dec-19 12:00:	:00 AM	TO:	01-Jan-20 12:00:00) AM
Report Generated on :	01-Jan-20 12:00	:00 AM :00:		19		
		spiradata sepi.	Raja a totala		Y temperatura an aria	Maria British Ali
Total Station Load (C1 + C2+ C5)	3178555	Total sta	ation to unit tie load	323878	2854677	< allocated load
Total Compressor load on units	2143339	Total com	nmon load on CLPH	bus for allocation	88500	
	Unit#1	Unit#2	Unit#3	Unit#4	Unit#5	Station
Generation	40272847	58532117	56603667	84104430	88795482	328308542
Unit Load	3885929	4636322	4748630	7075428	7273328	27619636
Compressor Load allocation	262918	382123	369533	549070	579695	2143339
CLPH load allocation	10856	15778	15258	22671	23936	88500
Corrected Unit Load	3692032	4598968	4914876	7094338	7319423	27619536
% Unit Consumption	9.17	7.86	8.68	8.44	8.24	- 8.41%
Allocated Station Load	350177	508943	492175	731297	772086	2854677
Station to unit consumption	138914	0	0	0	184964	323878
Total station load for each unit	489091	508943	492175	731297	957050	317855
% station load	1.21%	0.87%	0.87%	0.87%	1.08%	- 0.97%
Total Aux. consumed by unit	4181122	5107910	5407051	7825635	8276472	3079819
% of Aux. Consumption	10.38%	8.73%	9.55%	9.30%	9.32%	9.38%
Deemed PLF	100.00%	100.00%	100.00%	100.00%	100.00%	
PLF%	80.19%	65.56%	63.40%	94.20%	99.46%	80.60%

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Mr Gaure Cahoo

Name: Mr. Boban Chacko, Ms. Suchismita Nayak

01-Jan-20 12:00:00 AM

1 2021 1 01-Jan-20 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT'2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load, for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters glus

Sheet 2 of 2

0.6 % of generation as transformer losses is considered as unit load. Total station load is calucluated from the station I/C of C1,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

FROM:

01-Jan-20 12:00:00 AM

TO:

Sheet 1 of 2 01-Feb-20 12:00:00 AM

Report Generated on: 01-Feb-20.12:00:00 AM FEEDER NAME INITIAL READINGS FINAL READINGS DIFFERENCE KWH EXPORT KWH IMPORT KWH EXPORT KWH IMPORT KWH EXPORT KWH IMPORT GENERATION PML- GEN # 1 (Check) PML- GEN # 2 (Check) Û PML-GEN#3 (CHECK) PML-GEN#4 (CHECK) PML-GEN#5 Total Generation (PML) PML- GEN # 1 (G1B) PML-GEN#2 (G2B) PML- GEN # 3 (G3B) PML GEN#4 (G4B) PML GEN # 5 (G5B) Total Generation (Alpha) EXPORT 1 PML-LINE#1 Ð PML-LINE#2 PML-LINE#3 106(30) PML-LINE#4 PML-LINE # 5 PML-LINE#6 Û PML-LINE#7 PML-LINE#8 PML-LINE#9 Total 132 KV export PML-33 kV ST1 PML-33 kV ST2 PML-33 kV ST3 Ð Total 33 KV export Û PML- 132 kV ST1 PML- 132 kV ST2 PML- 132 kV ST3 ST 132 KV total PML- 6.6 kV C1 (T1C) PML- 6.6 kV C2 (T2C) PML- 6.6 kV C5 (T3C) Total 6.6 KV station load PML- 132 kV GT1 (G1A) PML-132 kV GT2 (G2A) PML-132 kV GT3 (G3A) PML- 132 kV GT4 (G4A) PML- 132 kV ICT1 (G5A) Total GT export at 132 KV PML - 6.6 KV C1 to U1A (TIE-U1) T1 PML - 6.6 KV C2 to U1B (TIE U1) T2 PML - 6.6 KV C3 to U2A (TIE U2) T3 PML - 6.6 KV C4 to U2B (TIE U2) T4 PML - 6.6 KV C3 to U3A (TIE U3)T5 PML - 6.6 KV C4 to U3B (TIE U3) T6 PML - 6.6 KV C2 to C6 (TIE U4) T7 PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C6 to U4A (TIE U3)T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 ō PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1) PML - 6.6 KV U2A (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U2) PML - 6.6 KV U3A (Unit I/C U3) PML - 6.6 KV U3B (Unit I/C U3) PML - 6.6 KV U4A (Unit I/C U4) PML - 6.6 KV U4B (Unit I/C U4) PML - 6.6 KV U5A (Unit I/C U5)

DAME A A WALLED WILLIAM 116)	121752	0	3355974	0	3234222	0
PML - 6.6 KV U5B (Unit I/C U5) C1 - BPRS 6.6 KV Feeder F1	676.20	0	576.20	0.	0	0
BPRS - Jemco reveocery F2	1636.68	ale see eres in	1637.85	0	1170	0
BPRS - Jemico reveocery FZ		Total	onsumption by unit	hus from Station	398336	509
(F1-F2) , IF F1 > F2, (F1-F	2) will be deduct	ed from total sta	tion load, else adder	to station Load	-1170	
33 KV (D/G feeder readin	gs as reported b	y TSL			
Telco feeder at Telco end	1231498		1245229		13731000	· ·
Cummins feeder at Cummins end	18147		19496	. 11	1349000	
Lafarge feeder at Lafarge end	163358		180473		17115000	
	132 KV line 9	and 6 secure me	eter readings as note	d by TSL		
Lin # 6 SECURE METER Reading	1210328	1223474	15775200	MF 1200000		
Lin # 9 SECURE METER Reading	2747.73	2775.73		MF 1000000		
		Reactive Gene	ration Readings			
	KVARH	MVAR				
Generator # 1 reactive	22421504	30.14	Generator # 4 reacti	ve	36794880	49.46
Generator # 2 reactive	22871552	30.74	Generator # 5 reacti	ve	37977600	51.05
Generator # 3 reactive	18896896	25.40			eri ali ali	
		Compress	or Readings			
	Initial R	eadings	Final Re		Net Rea	
	KWH Del	KWH Rec	KWH Del	KWH Rec		Net KWH Rec
AS-CommadA (IIdA Dua)	14283529	2	14402746	2	119217	
Air Comp 1A (U1A Bus)	14200020					
Air Comp 1B (U1B Bus)	14263919	2	14399675	2	135756	
Air Comp 1B (U1B Bus)	14263919			20	261248	0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus)	14263919 2764136	20		. 8	261248 73873	0
Air Comp 1B (U1B Bus)	14263919 2764136 19202940	20	3025384	. 8	261248 73873 327723	C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus)	14263919 2764136 19202940 74333344	20 8	3025384 19276813 74661067	. 8	261248 73873 327723 174090	0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus)	14263919 2764136 19202940 74333344 18721920	20 8 0 1680	3025384 19276813 74661067 18896010	. 8 0 1680 2	261248 73873 327723 174090 409384	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus)	14263919 2764136 19202940 74333344 18721920 28562445	20 8 0 1680 2	3025384 19276813 74661067 18896010 28971829 37964203	8 0 1680 2 3727	261248 73873 327723 174090 409384 491517	0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	14263919 2764136 19202940 74333344 18721920 28562445	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203	. 8 0 1680 2	261248 73873 327723 174090 409384	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	14263919 2764136 19202940 74333344 18721920 28562445	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203	. 8 0 1680 2 3727 Foatal Comp Load	261248 73873 327723 174090 409384 491517 1992808	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	14263919 2764136 19202940 74333344 18721920 28562445	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203	. 8 0 1680 2 3727 Foatal Comp Load	261248 73873 327723 174090 409384 491517 1992808	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus)	14263919 2764136 19202940 74333344 18721920 28562445 37472686	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203 #1 Readings 10869.00	. 8 0 1680 2 3727 Foatal Comp Load	261248 73873 327723 174090 409384 491517 1992808 131000 57400	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1	14263919 2764136 19202940 74333344 18721920 28562445 37472686	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203 #1 Readings 10869.00 7902.40	. 8 0 1680 2 3727 Foatal Comp Load	261248 73873 327723 174090 409384 491517 1992808 3131000 57400 68000	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE	14263919 2764136 19202940 74333344 18721920 28562445 37472686 10738.00 7845.00 4116.00	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203 #1 Readings 10869.00 7902.40 4184.00	. 8 0 1680 2 3727 Foatal Comp Load	261248 73873 327723 174090 409384 491517 1992808 131000 57400 68000 34100	C C
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE	14263919 2764136 19202940 74333344 18721920 28562445 37472686 10738.00 7845.00 4116.00	20 8 0 1680 2 3727	3025384 19276813 74661067 18896010 28971829 37964203 #1 Readings 10869.00 7902.40	. 8 0 1680 2 3727 Foatal Comp Load	261248 73873 327723 174090 409384 491517 1992808 131000 57400 68000 34100	C C

MONTHLY GENERATION REPORT Report Generated on :	FROM: 01-Feb-20 12:00	01-Jan-20 12:00:00 AM 0:00 AM	TO:	Sheet 2 of 2 01-Feb-20 12:00:00 AM		
				<u> </u>		
Total Station Load (C1 + C2+ C5)	3103667	Total station to unit tie load	398336	2705331	< allocated load	
Total Compressor load on units	1918935	Total common load on CLPH bu				
	V C V 11 - 14 44 A A	Heit#2	Hnit#4	Unit #5	Station	

Total Station Load G1 + G2+ G3)	3102001	(Otal St	ation to unit he load	00000	2,0000	
Total Compressor load on units	1918935	Total com	mon load on CLPH i	ous for allocation	86300	
秦皇帝是不是是 了秦国是一个是是一个	Unit#1	Unit#2	Unit#3	Unit#4	Unit#5	Station
Generation	40256807	64170954	47993582	73057570	82756353	308235265
Unit Load	3973431	5323640	3967275	6620561	6898742	26783648
Compressor Load allocation	250621	399500	298787	454824	515204	1918935
CLPH load allocation		17967	13437	20455	23170	86300
Corrected Unit Load		5479858	3951775	6512366	6945599	26783648
% Unit Consumption		8.54	8.23	8.91	8.39	8.69%
Allocated Station Load		563218	421232	641214	726339	2705331
Station to unit consumption		0	164713	0	233623	398336
Total station load for each unit		563218	585945	641214	959962	3103667
% station load		0.88%	1.22%	0.88%	1.16%	1.01%
Total Aux, consumed by unit		6043076	4537720	7153580	7905561	29887315
% of Aux. Consumption		9.42%	9.45%	9.79%	9.55%	9.70%
Deemed PLF		100,00%	80.15%	100.00%	99.60%	
PLF%		71.88%	53.76%	81.83%	92.69%	75.67%

Tisco Representative

TPCL Representative

Name: Mr. C N S Gautam & Ms Rosalin Samai

Name: Mr. Boban Chacko, Ms. Suchismita Nayak

Signature Courthan

Signatur

Date & Time 01-Feb-20 12:00:00 AM

Date & Time

01-Feb-20 12:00:00 AM

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT'2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters plus

0.6 % of generation as transformer losses is considered as unit load. Total station load is calucluated from the station I/C of CI,C2,C5 ie. T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation to station to unit TIE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep'18 month readings have considered from Initial & Final manual readings taken by TISCO.

MONTHLY GENERATION REPORT

01-Feb-20 12:00:00 AM

TO:

Sheet 1 of 2 01-Mar-20 12:00:00 AM

Report Generated on : 01-Mar-20 12:00:00 AM FEEDER NAME **INITIAL READINGS** FINAL READINGS DIFFERENCE KWH EXPORT KWH IMPORT KWH EXPORT KWH IMPORT KWH EXPORT KWH IMPORT GENERATION PML- GEN # 1 (Check) PML- GEN # 2 (Check) О PML- GEN #3 (CHECK) PML- GEN # 4 (CHECK) PML- GEN # 5 Total Generation (PML) PML- GEN # 1 (G1B) PML-GEN # 2 (G2B) PML- GEN # 3 (G3B) PML GEN #4 (G4B) PML GEN # 5 (G5B) Total Generation (Alpha) EXPORT PML-LINE # 1 PML-LINE # 2 n n PML-LINE#3 PML-LINE # 4 PML-LINE # 5 PML-LINE#6 PML-LINE#7 PML-LINE#8 PML-LINE#9 Total 132 KV export PML- 33 kV ST1 PML-33 kV ST2 Ω PML- 33 kV ST3 Ð Total 33 KV export PML- 132 kV ST1 PML- 132 kV ST2 PML- 132 kV ST3 ST 132 KV total PML- 6.6 kV C1 (T1C) D PML- 6.6 kV C2 (T2C) PML- 6.6 kV C5 (T3C) Total 6.6 KV station load PML- 132 kV GT1 (G1A) PML- 132 kV GT2 (G2A) Ω PML- 132 kV GT3 (G3A) PML- 132 kV GT4 (G4A) PML- 132 kV ICT1 (G5A) Total GT export at 132 KV PML - 6.6 KV C1 to U1A (TIE-U1) T1 PML - 6.6 KV C2 to U1B (TIE U1) T2 PML - 6.6 KV C3 to U2A (TIE U2) T3 PML - 6.6 KV C4 to U2B (TIE U2) T4 PML - 6.6 KV C3 to U3A (TIE U3)T5 PML - 6.6 KV C4 to U3B (TIE U3) T6 PML - 6.6 KV C2 to C6 (TIE U4) T7 PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C6 to U4A (TIE U3)T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1) PML - 6.6 KV U2A (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U2) PML - 6.6 KV U3A (Unit I/C U3) PML - 6.6 KV U3B (Unit I/C U3) n PML - 6.6 KV U4A (Unit I/C U4) PML - 6.6 KV U4B (Unit I/C U4) PML - 6.6 KV U5A (Unit I/C U5)

PML - 6.6 KV U5B (Unit I/C U5)	3355074	2	6752474	T		
		. *				
				r fa grandyrinet erfel t Die einstelle staten in		
-1 10 Compositor Courty 1 Z	1		1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
(F1-F2) IF F1 > F2 (F1-3	2) will be deduc	tad from total at	consumption by time	t bus from Station	321373	
33 KV	O/G feeder readi	ngs as reported	by TSL	tu to station Load	+3880	
Telco feeder at Telco end		3		T	7296000	
Cummins feeder at Cummins end				4		
Lafarge feeder at Lafarge end		l.		t		1
	132 KV Jine 9	and 6 secure m		ed by TSI	10130000	<u> </u>
Lin # 6 SECURE METER Reading						
Lin # 9 SECURE METER Reading	2775,73	2802.58			.	
		Reactive Gene	retion Resolings	Will 20000BU		
	KVARH	MVAR				
Generator # 1 reactive	4372480	6.28	Generator # 4 reacti	ive	38386688	55.15
Generator # 2 reactive	18932224	27.20				53.65
Generator # 3 reactive	17637376	25.34			1 01041030	03.03
		Compress	or Readings			
Lafarge feeder at Lafarge end 180473 196631 16158000 132 KV line 9 and 3 secure meter readings as noted by TSL Lin # 6 SECURE METER Reading 1223474 1235693 14662800 MF 1200000 Lin # 9 SECURE METER Reading 2775.73 2802.58 26850000 MF 1000000 Reactive Generation Readings KVARH MVAR Generator # 1 reactive 4372480 6.28 Generator # 4 reactive 38386688 55 Generator # 2 reactive 18932224 27.20 Generator # 5 reactive 37341696 53 Generator # 3 reactive 17637376 25.34 Compressor Readings Initial Readings Final Readings Net Readings						
	Initial R			adings	Net Rea	dinas
		eadings	Final Re			
	KWH Del	eadings KWH Rec	Final Re KWH Del	KWH Rec	Net KWH Del	Net KWH Rec
	KWH Del 14402746	eadings KWH Rec 2	Final Re KWH Del 14441528	KWH Rec 2	Net KWH Del 38782	Net KWH Rec 0
Air Comp 1B (U1B Bus)	KWH Del 14402746 14399675	eadings KWH Rec 2 2	Final Re KWH Del 14441528 14458630	KWH Rec 2	Net KWH Del 38782 58955	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus)	KWH Del 14402746 14399675 3025384	eadings KWH Rec 2 2 20	Final Res KWH Del 14441528 14458630 3349361	XWH Rec 2 2 2 20	Net KWH Del 38782 58955 323977	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus)	KWH Del 14402746 14399675 3025384 133365	eadings KWH Rec 2 2 20 8	Final Re KWH Del 14441528 14458630 3349361 325620	2 20 0	Net KWH Del 38782 58955 323977 192255	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus)	KWH Del 14402746 14399675 3025384 133365 74661067	eadings KWH Rec 2 20 8 0	Final Re KWH Del 14441528 14458630 3349361 325620 74863091	20 0 0	Net KWH Del 38782 58955 323977 192255 202024	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	KWH Del 14402746 14399675 3025384 133365 74661067 18896010	eadings KWH Rec 2 20 8 0 1680	Final Re KWH Del 14441528 14458630 3349361 325620 74863091 19110749	2 2 2 20 0 0 1680	Net KWH Del 38782 58955 323977 192255 202024 214739	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus)	KWH Del 14402746 14399675 3025384 133365 74661067 18896010 28971829	eadings KWH Rec 2 20 8 0 1680	Final Re KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121	EWH Rec 2 2 2 20 0 0 1680 2	Net KWH Del 38782 58955 323977 192255 202024 214739 413292	Net KWH Rec 0
C1 - BPRS 6.5 KV Feeder F1		Net KWH Rec 0				
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus)	KWH Del 14402746 14399675 3025384 133365 74661067 18896010 28971829 37964203	eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re- KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121 38366419	EWH Rec 2 2 2 20 0 0 1680 2 3727	Net KWH Del 38782 58955 323977 192255 202024 214739 413292 402216	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1	KWH Del 14402746 14399675 3025384 133365 74661067 18896010 28971829 37964203	eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re- KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121 38366419	KWH Rec 2 2 2 2 2 2 2 2 2	Net KWH Del 38782 58955 323977 192255 202024 214739 413292 402216 1846240	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2	KWH Del 14402746 14399675 3025384 133365 74661067 18896010 28971829 37964203	eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re- KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121 38366419 7 F1 Readings	KWH Rec 2 2 2 2 2 2 2 2 2	Net KWH Del 38782 58955 323977 192255 202024 214739 413292 402216 1846240	Net KWH Rec 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE	KWH Del	eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121 38366419 TReadings 10958.00 7914.00	2 20 0 0 1680 2 3727 oatal Comp Load	Net KWH Del 38782 58955 323977 192255 202024 214739 413292 402216 1846240 89000 11600	Net KWH Rec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE CT FAN BUS B SIDE	KWH Del 14402746 14399675 3025384 133365 74661067 18896010 28971829 37964203 10869.00 7902.40 4184.00 4163.10	eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121 38366419 TFREEDINGS 10958.00 7914.00 4199.00 4169.30	KWH Rec	Net KWH Del 38782 58955 323977 192255 202024 214739 413292 402216 1846240 89000 11600 15000 6200	Net KWH Rec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Air Comp 1B (U1B Bus) Air Comp 2A (U2A Bus) Air Comp 2B (C3 Bus) Air Comp 2C (U3A Bus) Air Comp 4A (U 4A Bus) Air Comp 4B (U 4B Bus) Air Comp 5B (U5B Bus) CLPH INC 1 CLPH INC 2 CT FAN BUS A SIDE CT FAN BUS B SIDE	KWH Del 14402746 14399675 3025384 133365 74661067 18896010 28971829 37964203 10869.00 7902.40 4184.00 4163.10	eadings KWH Rec 2 20 8 0 1680 2 3727	Final Re KWH Del 14441528 14458630 3349361 325620 74863091 19110749 29385121 38366419 TFREEDINGS 10958.00 7914.00 4199.00 4169.30	KWH Rec	Net KWH Del 38782 58955 323977 192255 202024 214739 413292 402216 1846240 89000 11600 15000 6200	Net KWH Rec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

MONTHLY GENERATION REPORT Report Generated on :	FROM; 01-Mar-20 12:00	01-Feb-20 12:00: :00 AM	00 AM	TO:	01-Mar-20 12:00:0	Sheet 2 of 2 O AM
	Colyline Title Vic			ar jeunje gravel	aktoriti kurija at	and A discount
Total Station Load (C1 + C2+ C5)	2717850	Total sta	tion to unit tie load	521678		< allocated loa
Total Compressor load on units	1846240	Total com	mon load on CLPH	bus for allocation		3110000000
和基础的。 第二章	Unit#1	Unit#2	Unit#3	Unit#4		Station
Generation	8956384		49464272	74233165		266856631
Unit Load	909807	4884870	4381793	6548273		23042086
Compressor Load allocation	61964	392736	342217	513580	535742	1846240
CLPH load allocation	2665	16890	14718	22087	23040	79400
Corrected Unit Load	797299	4970520	4536704	6455909	6473909	23234341
% Unit Consumption	8.90	8.76	9.17	8.70	8.36	8,71%
Allocated Station Load	73709	467175	407080	610923	637285	2196172
Station to unit consumption	168097	0	50266	62181	241134	521678
Total station load for each unit	241806	467175	457346	673104	878419	2717850
% station load	2.70%	0.82%	0.92%	0.91%	1.13%	1,02%
Total Aux. consumed by unit	1039105	5437694	4994050	7129013		25952191
% of Aux. Consumption	11.60%	9.58%	10.10%			9.73%
Deemed PLF	23.72%	100.00%	93.65%	98,09%	97.54%	- V-E - 7
PLF%	19.06%	67.97%	59.22%	88,88%		70.03%
						10.007
Tisco Representative				TPCL Representative	1	<u> </u>
Name: Mr. C N S Gautam & Ms Vanita			Name: Mr.Bol	oan Chacko, Ms. Such	ismita Nayak	- (,'20
Signature Couthou.				Signature	Shage Navak	wen.
Date & Time	01-Mar-20 1	L2:00:00 AM		Date & Time	01-Mar-20 12	

The Above calculations are made on he basis of mutual uderstanding between TATA STEEL and TATAPOWER COMPANY LIMITED on 29th OCT'2011. For Unit 1,2 and 3 the unit Aux. calculated as difference of 11KV meter reading and 132 KV meter reading after GT of each unit as Unit load. for Unit 4 and 5 Unit I/C load recorded by 6.6 KV end meters olus

TATA POWER COMPANY LIMITED

JOJOBERA POWER PLANT

Sheet 1 of 2

MONTHLY GENERATION REPORT Report Generated on :

FROM: 01-Mar-20 12:00:00 AM 01-Apr-20 12:00:00 AM

TO:

01-Apr-20 12:00:00 AM

report denerated on .	01-Apt-20 (2:00)	UU AW				
FEEDER NAME	INITIAL F	READINGS	FINAL RE	ADINGS	DIFFER	ENCE
	MANUE ENDORTH	KIMH IMPOUT	WWIII EVECTOR	101401137		
GENERATION	INVITENTURI	TIAL READINGS FINAL READINGS PORT KWH IMPORT KWH EXPORT KWH III 79984	KWH IMPORT	KWH EXPORT	KWH IMPORT	
PML-GEN # 1 (Check)	1806579984	1 0		0	22447000	1 14 14
PML- GEN # 2 (Check)	3927725980					0
PML- GEN # 3 (CHECK)	4862727314		777 (11001111)		0010,47)	0
PML-GEN#4 (CHECK)	11737022800		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0
PML- GEN # 5	7565207277					0
				Generation (PML)		
PML- GEN #1 (G1B)	8242098638	340				0
PML- GEN # 2 (G2B)	13734549451	469	13790602279			0
PML- GEN #3 (G3B)	14001465862	545	14042014741	545		0
PML GEN #4 (G4B)	11794056008		11862673016	378	68617008	0
PML GEN # 5 (G5B)	7563116669	1530				0
PVPORT N			Total G	eneration (Alpha)	262975486	
EXPORT				· · · · · · · · · · · · · · · · · · ·		
PML-LINE # 1 PML-LINE # 2	8671115930					
PML-LINE # 3			•			. 0
PML- LINE # 4	7989394060 3003017427					0
PML- LINE # 5	4315142339					0
PML-LINE#6	1578379981		1000100400			0
PML-LINE # 7	890686720					0
PML-LINE#8	790333952				6042048 6249792	
PML-LINE#9	2686051138					0
	1			tal 132 KV export	212771635	0
PML- 33 kV ST1	2569965213	2628	2579527218	2628		0
PML-33 kV ST2	2097768362	8755				.0
PML- 33 kV ST3	0	0	0		0	Ö
			T	otal 33 KV export	10565826	0
PML- 132 kV ST1	2746947074					. 5653
PML- 132 kV ST2	2187217820				1825849	6574
PML- 132 kV ST3	1806672157	1948458	1819617846		12945689	5
DML CONVOLUTION				ST 132 KV total	24304744	12232
PML- 6.6 kV C1 (T1C) PML- 6.6 kV C2 (T2C)	25784086			****	199921	0
PML- 6.6 kV C5 (T3C)	50373620				980150	0
FME- 0.0 KV C3 (13C)	[6969899]	186			2038028	0
PML- 132 kV GT1 (G1A)	7256593040	0.440			3218099	0
PML- 132 kV GT2 (G2A)				8416	19708684	5
PML- 132 kV GT3 (G3A)	12815812937			0 2898	00000010	0
PML- 132 kV GT4 (G4A)	8679413712	·				2
PML- 132 kV ICT1 (G5A)	5149666457	· · · · · · · · · · · · · · · · · · ·		1118	62037268 68981164	0
		,,,,,,,			187615465	12 20
PML - 6.6 KV C1 to U1A (TIE-U1) T1	3048998	Ö		export at 132 (V	96189	20 0
PML - 6,6 KV C2 to U1B (TIE U1) T2	49666432	380199		381523	59323	1324
PML - 6.6 KV C3 to U2A (TIE U2) T3	3415811	73		73	0 0	0:
PML - 6.6 KV C4 to U2B (TIE U2) T4	9132807	52	9132807		o o	0
PML - 6.6 KV C3 to U3A (TIE U3)T5	130828	6167915		6167916	81967	0
PML - 6.6 KV C4 to U3B (TIE U3) T6	84591			1682341	70665	ū
PML - 6.6 KV C2 to C6 (TIE U4) T7		35514523	12308504	35514523	192634	0
	12115870					
PML - 6.6 KV C5 to C7 (TIE U4) T8	20350714	15291909		15291909	646621	0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9	20350714 34486284	15291909 4012955	34486284	15291909 4012955	0	0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10	20350714 34486284 33669678	15291909 4012955 1020	34486284 34007752	15291909 4012955 1020	646621 0 338074	0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C5 to U4A (TIE U3) T5	20350714 34486284 33669678 3498158	15291909 4012955 1020 31	34486284 34007752 3498158	15291909 4012955 1020 31	0 338074 0	0 0 0
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PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C5 to U4A (TIE U3) T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1)	20350714 34486284 33669678 3498158 3258327 98549642 18780950	15291909 4012955 1020 31 8 3	34486284 34007752 3498158 3258327 99736180 19875043	15291909 4012955 1020 31 8 3 99	0 338074 0 0 1186538 1094093	0 0 0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C5 to U4A (TIE U3) T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1)	20350714 34486284 33669678 3498158 3258327 98549642 18780950 11591860	15291909 4012955 1020 31 8 3 99	34486284 34007752 3498158 3258327 99736180 19875043 14292170	15291909 4012955 1020 31 8 3 99	0 338074 0 0 1186538 1094093 2700310	0 0 0 0 0 0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C6 to U4A (TIE U3) T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U2)	20350714 34486284 33669678 3498158 3258327 98549642 18780950 11591860 57086914	15291909 4012955 1020 31 8 3 99 31	34486284 34007752 3498158 3258327 99736180 19875043 14292170 59121404	15291909 4012955 1020 31 8 3 99 31	0 338074 0 0 1186538 1094093 2700310 2034490	0 0 0 0 0 0 0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C5 to U4A (TIE U3) T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1) PML - 6.6 KV U2A (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U3)	20350714 34486284 33669678 3498158 3258327 98549642 18780950 11591860 57086914 80890317	15291909 4012955 1020 31 8 3 99 31 104 28	34486284 34007752 3498158 3258327 99736180 19875043 14292170 59121404 80890317	15291909 4012955 1020 31 8 3 99 31 104 28	0 338074 0 0 1186538 1094093 2700310 2034490	0 0 0 0 0 0 0 0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1 to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C6 to U4A (TIE U3) T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1) PML - 6.6 KV U2B (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U2) PML - 6.6 KV U3A (Unit I/C U3) PML - 6.6 KV U3B (Unit I/C U3)	20350714 34486284 33669678 3498158 3258327 98549642 18780950 11591860 57086914 80890317 2988820	15291909 4012955 1020 31 8 3 99 31 104 28	34486284 34007752 3498158 3258327 99736180 19875043 14292170 59121404 80890317 2988820	15291909 4012955 1020 31 8 3 99 31 104 28	0 338074 0 0 1186538 1094093 2700310 2034490 0	0 0 0 0 0 0 0 0 0 0
PML - 6.6 KV C5 to C7 (TIE U4) T8 PML - 6.6 KV C1to C8 (TIE U5) T9 PML - 6.6 KV C5 to C9 (TIE U5) T10 PML - 6.6 KV C5 to U4A (TIE U3) T5 PML - 6.6 KV C7 to U4B (TIE U3) T6 PML - 6.6 KV U1A (Unit I/C U1) PML - 6.6 KV U1B (Unit I/C U1) PML - 6.6 KV U2A (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U2) PML - 6.6 KV U2B (Unit I/C U3)	20350714 34486284 33669678 3498158 3258327 98549642 18780950 11591860 57086914 80890317	15291909 4012955 1020 31 8 3 99 31 104 28 28	34486284 34007752 3498158 3258327 99736180 19875043 14292170 59121404 80890317 2988820 21094986	15291909 4012955 1020 31 8 3 99 31 104 28	0 338074 0 0 1186538 1094093 2700310 2034490	0 0 0 0 0 0 0 0

0.6 % of generation as transformer losses is considered as unit load. Total station load is caluctuated from the station I/C of Ct.C2.C5 ie, T1C, T2C, T3C less tie loading of each units as common and aportionated to all units on the basis of generation in addition to station to unit TtE loading. Compressors connected to unit bus are metered apportioned on the basis of generation. Common load connected to CLPH MCC derived and apportioned to units on the basis of generation. Line 9 Sep*18 month readings have considered from Initial & Final manual readings taken by TISCO.

ANNEXURE R2

Mitra S. K. Private Limited

Shrachi Centre (5th Floor) 74B, Acharya Jagadish Chandra Bose Road Kolkata – 700 016, West Bengal, India CIN: U51909WB1956PTC023037

T: 91 33 22172249 / 40143000 / 22650006 / 22650007

F: 91 33 22650008 E: info@mitrask.com W: www.mitrask.com

				STAT	EMENT OF C	OAL SA	MPLING	AND ANA	LYSIS -U	N LOAD	ING POI	٧T					
For th	ie Month	: Marcl	ı '2020								***************************************						
Type	of Coal	: Middl	ing Coal		******			*******									
						TM %	Pı	roximate Ar	alysis (AI	OB)	GCV (Kcal/kg	GCV (Kcal/kg)	Te	Condition mp/GC	Result O on of 60 V/IS 135 Reaff-20	% RH 4 0(Part-I	0°C
Rake No	RR NO	COMM ODITY	QTY(MT)	DATE OF SAMPLING	DATE OF PREPARATI ON	(ARB)	IM %	ASH %	VM %	FC %	(ADB)	(ARB)	IM %	ASH %	VM %	FC %	GCV Kcal/K
9975	162000368	∠WB	3799.460	01-03-2020	02-03-2020	4.95	1.16	43.27	17.61	37.96	4101	3943.75	1.04	43.32	17.63	38.01	4106
10001	462004887	WB	3792.300	26-03-2020	27-03-2020	5.17	1.41	41.46	18.45	38.68	4182	4022.51	1.29	41.51	18.47	38.73	4187
10004	462004891	‴ WB	3915.450	28-03-2020	29-03-2020	4.37	1.33	41.54	17.92	39.21	4001	3877.73	1.15	41.62	17.95	39.28	4008
	TOTAL		11507.210			4.83	1.30	42.09	17.99	38.62	4095	3948.00	1.16	42.15	18.02	38.67	4100

DISCLAIMER

Please note that the quantity is declared by M/S TATA POWER COMPANY LIMITED

Sampling:-IS-436 Part-I,1964, Reaff:-2007

Test Protocol: - Total Moisture & Proximate -IS 1350 (Part - I)-1984 Reaff-2013 and GCV - ASTM D 5865-13

Abbreviation: TM: Total Moisture, IM: Analysis Sample Moisture, VM: Volatile Matter, FC: Fixed Carbon,

GCV: Gross Calorific Value, ARB: As Received Basis & ADB: Air Dry Basis

This report is a worksheet for internal purposes only. Mitra SK has no responsibility and / or liability whatsoever for the consequences of any action taken or not taken on the basis of this Report. All orders are accepted and all reports and certificates issued subject to the General Conditions of Service which are accessible at www.mitrask.com

The above reflects our findings at time and place of Inspection. This Status does not relieve sellers/suppliers from their contractual responsibilities nor does prejudice buyer's right of claim towards seller/Supplier for compensation for any apparent and/or hidden defects not detected during our random Inspection or occurring thereafter.

The manual sampling method was agreed with the Mitra SK Principal, as campling by more relieble methods that regular aspects as the contraction of the provider of the provider selection of the provider of the provide

The manual sampling method was agreed with the Mitra SK Principal, as sampling by more reliable methods that provide probability samples was not possible. The Holder of this document is cautioned that collected MANUAL samples of this type do not satisfy the minimum requirements for probability sampling, and as such cannot be used to draw statistical inferences such as precision, standard error, or bias.

The consignment from which the samples were collected had a nominal top size of over 80millimeter. While the sampling method was agreed upon by all parties to this report, due to the limited ability to extract representative increments from the eargo, the samples collected will not necessarily be representative of the entire eargo. Mitra SK has no responsibility and /or liability for the consequences of any action taken or not taken on the basis of this report.

For Mitra S. K. Private Limited

ANNEXURE R3



3PP.WT - 3744.20

Wheelther are lex.



LO BUELL

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Gauge Code elis-		7 5	300ds 17U 6 27	तिजी मार्क स	GST PARTICULARS: 81 GST AMOUNT RS67118 TYPE:TRANSPORTATIC EXEMPTION RC 19 OF		d- Gross	- www det en en en	80.5 184.2 184.2 184.8 184.8 187.8 187.8		IER: KA	ONDHIN	FILED
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h For Wheeless जियो का न		(DK	8	28/	EX I GS		CC Tare	22.48 22.48 22.48 20.6	22.48 0 22.48 0 22.48 0 22.48 0 22.48 0 22.48 0 22.48 0		68	ED AT	COMP S
A KHC	4 6	MA-1							25.7.7.2.5.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8		878 U54AZZ	KOAD LOAD	R'S CHI
i sei	दारीख दारीख तारीख तारीख 16001120 त्यातातात	UDL-KPK-DMA-MDKD-RKI-JOC-GRB-ANR-PRR CNT	COAL FIR	DISHER E7590E1ZI)	T0054A2ZE)		Wagon No.	18	00475 08527 06388 60388 61306 30330 99033 61867		: 20011923080	STEAM COAL OPEN WAGO WAY STAFF.W	RAFT/BANKE
सीख इन्वायस सं			M/S EASTERN COAL FIE	SAMOTORIA PO DISHER GAKH ECKIDAAACETSUELZI) THETATE PEWERFEDINFE NV 1771	TPL(ZUAAACTUU54AZZE)		Type CIRT	BOXN BOXN BOXN BOXN BOXN BOXN BOXN	80XN 80XN 80XN 80XN 80XN 80XN 80XN		TAX Invoice Number:092001192308008/78 GSTIN OF CUSTOMER : ZUAARCTUGS4AZZE	OLED BARNE; OPEN WAGOP, LOADED AN REQUEST & RISK OF SHADER TRAIN LOAD CONDITIONS COMPLIED WITH ALOADING DONE IN SIDING . HOT SHAREM WAS SHAREM	Scriptilian N D
रे.र.वाशिख	1701130	Charged Via	W/SE	School GARHE	PTJT 1	47 48	-	TAT TO SECUL	20 S C C C C C C C C C C C C C C C C C C		X Invoic		nodity De

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EASTERN CDALFIELDS LIMITED SUBSIDIARY OF COAL INDIA LIMITED.)
Tax Invoice (GST INV -1) (Rulm 46)
SELE OF REW COEL (Credit Sele)
ELN - UloioWal975GDI030295

dsTin: 1944ACE7590E1ZI Name: Eastern Coalfields

Consignee Name: Address:

なららい中世界は

State Name: CSTIN: State Code;

Original for Reciplent Dupflicate for Transporter Triplicate for Supplier

Consignee (Shipped to) Involce No: 1701200512401054 Date: 22/01/2020 Detail of

E FE

Coreignes Name:

THE TATA POWER COMPANY LIMITED JOINDANN LIMITED JOINTRAHAGGRA JANSHEDPUR 831016 JANSHAMU B21199 ZOAAACTOOS4AZZE ZOAAACTOOS4AZZE ZOAAACTOOS4AZZE ZOAAACTOOS4AZZE ZOAAACTOOS4AZZE state Trade or commerce State Name: Unique ID: GSTIN: State Code: Sei Areai SCNEPUR BAZARI
Collieryi S. B PROJECT
PD: WEST BENEAL
Setail of Receiver EBilled to 1
See Name: THE TATA POWER COMPANY LIMITED IFWD C.
Si Saloid
Same! BARNAND
TO BELLY BENEAL
SOCIATION OF RECEIVER C. inter

00,001001 Amount (RS) ET La 00000 **只**班七郎 Unit of Meseurement (IN TONNE) Delivery (where the same is different from the supply) Quantity of state(in ness of かるかれる にいいるから Supply with name

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Evacuation Charge:
Evacuation Charge:
Weighment/Sizing Charges:
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Coal

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Royalty:
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Silo Loading Charges: Field)
AMB Rode: (For Bengal Field)
Management Fees! (for Jharkhand

Goods

Field

Companie tor cess. Total Value of Goc Discount (if any):

4 Less: Under Loading Total Payable Amt: TCS: Net Payable Amt in Wn fotal Value of Goods

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706.13 1005033.87 0.00 0.00 0.005033.87 Three Hundred Thirty-Three A Trockerio 415 E Gra Crora Rupmon Ant: Word

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Intendaty: 412000613 17/01/2020 **52701** RR No .. 16/01/2020 Load Date:
Despatch Date:
D Note No :

02

Charge! payble on Reverse Wheather the Tax 16 Ashx : Ashx : Sean : R-II & III

of Coal:ROM(-100)

Drade:

Prepared By Aproved By Chacked By Authority Signatory(Designation) is 1/we certify that my/our registration certificate under the CCST/SCST/ICST/CCST Comp.cess.ZO17 is the date on which the supply of goods specified in this tax invoice is made by me/us and that the of supply covered by this tax invoice has been effected by me/us and it shall be accounted for turnover of supply while filing of return and the tax-if any, payable on the supply has been paid Declaration.

transaction in the

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2003.92 / : 38.80 SITALPUR SIP Mode: R

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The MY



Tada Power Co. I ted. Joiobera Power Plant Jamshedpur

Rake ID. Product Customer Waqon Weid	1 1 1ed 58		Tot.T	are Wt 126	12.25 Date 58.05 Time 14.20 Date B Time	In 09:1 Out 21/0	01/2020 00:53 01/2020 49:43
Mon No TippleTime	Wagon ID Wagon Type	Wagon Mode	СС	Date In Time In	Date Out Time Out	Gross Wt. Tare Wt.	Net Wt.
1.	SEC43092	70.30		21/01/2020	21/01/2020	90.80	69.60
3	Single	AD AD		09:00:53	09:03:00	21.20	
2	SER78776	70.40		21/01/2020	21/01/2020	90.50	69.85
>	Single :	AD AD		09:04:15	09:06:06	20.65	
3	NF08527	59.10		21/01/2020	21/01/2020	84.35	62.40
7	Single	AD AD		09:07:36	09:09:26	21.95	
1 .	CR60038	70.40		21/01/2020	21/01/2020	88.85	67.50
2	Single	AD AD		09:10:58	09:12:47	21.35	
7	NE06625	59.30		21/01/2020	21/01/2020	80,60	. 59. 15
2	Single	AD AD		09:13:46	09:15:38	21.45	
5	WCR28860	58.40		21/01/2020	21/01/2020	80.65	59.15
2	Single	AD AD		09:25:19	09:27:10	21.50	
7	SWR1.6358	60.10		21/01/2020	21/01/2020	82.20	60.40
2	Single	AD AD		09:29:31	09:31:22	2180	
3	SE30121	58.81		21/01/2020	21/01/2020	83.05	61.50
The same of the sa	Single	AD AD		09:32:47	09:34:38	21.55	
	NCR25700	70.50		21/01/2020	21/01/2020	85.15	64.00
2	Single .	AD AD		09:35:55	09:37:45	2115	
10	SE67664	58.30		21/01/2020	21/01/2020	83.60	61.35
2	Single	AD: AD		09:51:31	09:53:39	22.25	
1.1	ECR65471	70.04		21/01/2020	21/01/2020	87.65	. 66.90
2	Single	AD AD		09:57:23	09:59:14.	20.75	
1.2	WCR17526	58,30		21/01/2020	21/01/2020	93.60	72.45
9	Single	AD AD		10:00:59	10:02:48	21.15	
13	SE25108	58.83		21/01/2020	21/01/2020	83.05	61.40
2	Single	AD AD		10:03:48	10:05:40	21.65	
14	SR10112	58.30		21/01/2020	21/01/2020	84.55	63.40
2	Single	AD AD		10:06:29	10:08:20	21.15	
1.5	NF00475	59.30		21/01/2020	21/01/2020	83.00	60.80
2	Single	AD AD		10:12:57	10:14:47	22.20	
16	SECR18949	71.40		21/01/2020	21/01/2020	87.90	66.65
1	Single	AD AD		10:16:07	10:17:57	21.25	
17	SE12345	58.30		21/01/2020			62.80
2	Single	AD AC		10:32:38	10:34:29	21.70	
18	WCR41610	58.83		21/01/2020			63.25
?	Single .	AD AC		10:36:46	10:38:40	22.40	
1.9	NR60388	59.27		21/01/2020	21/01/2020	83.85	62.00
2	Single	AD AD		10:40:18	10:42:10	21.85	17.
20	SC61306	158.30		21/01/2020			61.75
2	Single	AD AL		10:44:45	10:46:36	22.10	
21	SE99033	5886		21/01/2020		87.50	64.95
2	Single	. AD AD		10:47:48	10:49:50	22.55	
00	SUZUZZU -	59.16			21/01/2020	83.85	61,60

1	Single	AD AD	10:51:02	10.50.5%	22.25	
al.						
2.3	WR61233	59.18	21/01/2020	21/01/2020	86.50	64.45
7.	Single	AD AD	. 10:54:03	11:01:56	22.05	
24 .	SE62734	59.89	21/01/2020	21/01/2020	88.25	64.85
2 .	Single	AD AD	11:04:46	11:06:40	23.40	5.8
. 25	SE61561	58.83	21/01/2020	21/01/2020	87.75	65.65
2	Single	AD AD	. 11:07:45	11:09:40	22.10	
The same of the same and the same same same same same					Page No): 1.

Wadon No Tippl eTim e		Waqon CC Mode	Date In Time In	Date Out Time Out	Gross Wt. Tare Wt.	Net Wt
26	SCR59240	70.04	21/01/2020	21/01/2020	8700	65.40
1	Single	AD AD	11:11:00	11:12:55	21.60	
27	NR60678	58.30	21/01/2020	21/01/2020	87.00	64.80
場.	Nickalog77	AD AD	11:14:56	11:24:43	22.20	
5	Single	68.14 AD AD	21/01/2020	the second of the second of the second	85.40	63.0
29	SE61867.	58.83	11:27:25	11:29:20	22.35	
2	Single	AD AD	ZT\0T\5050	21/01/2020	85.65	63.2
30	WR03348	59.60	11:30:19	11:32:12	22.40	
2	Single	:AD AD	X1/01/2020	21/01/2020	88,00	6630
21,	ECoR27768	70,90	11:33:24	11:35:16.	2170	
	Single	AD AD	21/01/2020	many and was a second	9355	72.5
32	ECR12014	70.40	11:39:51	11:41:44	21.00	
3.	Single	AD AD	21/01/2020	21/01/2020	90.20	6930
33	SEC50994	7070	11:42:52	11:44:43	20.90	
2	Single	AD AD	21/01/2020	21/01/2020	83.65	6280
34	ER10826	7050	11:52:31	11:54:31	20.85	
S	Single	AD AD	21/01/2020	21/01/2020	87.20	66.60
3.5	ECR49153	70.40	11:59:12	12:01:06	20.60	
?	Single	AD AD	21/01/2020	21/01/2020	88,50	6735
36	ECR91426	59.92	12:05:56.	12:07:49	21.15	
?	Single	AD AD	21/01/2020	21/01/2020	9125	69.75
57	SEC45239 / 3	70.50	12:09:35	12:11:32	21.50	
2	Single	AD AD		21/01/2020	85.65	64.55
8	SECR24419	70.70		12:15:16	, 21.10	
	Single	AD AD		21/01/2020	8350	62.40
9.	ECoR35505	70.00		12:18:43	21.10	
	Single	AD AD		21/01/2020	88.75	67.55
10	ECR71014	7070	12:20:09	12:22:01	21,20	
	Single	AD AD	21/01/2020		87.10	66.00
	SECR20718			12:25:46	21.10	
	Single"	70.60		21/01/2020	87.25	66.,90
? .	ECR14197	AD AD	12:28:26	12:30:19	20.35	
	Single	71,00	21/01/2020	21/01/2020	89,50	6860
3	ECR26562	AD AD		12:33:39	20.,90	
	Single	71.08		21/01/2020	88.30	67.35
4	SECR22090	AD AD		12:42:30	20.95	20 1 W 20 20
	Single	70.40	21/01/2020	21/01/2020	88.35	66.90
K.	ECR53155	AD AD		12:46:16	21.45	
	Single .	70.50 AD AD	21/01/2020	21/01/2020	8720	65.80
4,	NER10157	7030		12:49:21	21.40	
	Single	AD AD		21/01/2020	86.95	66.25
7	ECR72455	70.40	en a d - a	12:52:13	2070	
	Single			21/01/2020	87.85.	661.65
}	ER12865	AD AD 70.66		2:58:38	21.20	
	Single	AD AD		21/01/2020	8175	60.45
	SECR30528	70.90.		.3:05:17	21.30	
	Single	AD AD		21/01/2020	84.85	6370
	SECR84316	71.00		3:09:54	21.15	- 1
	Single	AK AD		21/01/2020	86.15	65.00
	SER67794	70.50		3:22:33	21.15	
	Single	AD AD		21/01/2020	88.80	67.45
	SECR85963	70.30		4:27:49	21.35	
	Single		21/01/2020 2	1/01/2020	9070	6920
	ECR39296			4:32:37	21.50	
	Single			1/01/2020	84.15	62,90
	5 IPW 2 4 77 PU PU	AD AD	14:33:38 1	4:35:29	.21.25	

2.55 2.56 2.57	Single ECOR49311 Single CR12560 Single ECR90361	58.UM AD AD 70.23 AD AD 70.58 AD AD 70.12	14:36:18 21/01/2020 14:39:23 21/01/2020 14:42:04	-21/01/2020 14:41:15 21/01/2020	83.70 22.65 87.00 21.90 84.10 21.50 84.90	61.05 65.10 62.60
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Wadon No	Wadon ID	Wagon CC	Date In	Date Out	Gross Wt:	Net Wt.
TippleTime	Wadon Type	Mode	Time In	Time Out	Tare Wt.	
2 58 2	Single SECR24785 Single	AD AD 71.04 AD AD		14:46:47 21/01/2020 14:49:43	20.90 87.15 21.30	65.85.

TIPPLING TIME IN MINUTES. ALL WEIGHTS ARE IN TONNES

EGEND

A- Auto/Semi Mode Weighment D- Digitizer obtained Weight
M- Manual Mode Weighment K- Keyboard Entered Weight M- Manual Mode Weighment K- Keyboard Entered Weight

> Wagon Tippler ver 1.3 Supplied by Avery India Limited Leading the weigh in Technology

Computation of Transit Loss for a Sample Rake
compared to the control of the contr

Rake	RR Wt (MT)	JPP Wt (MT)	Shortage	Transit Loss
RR No. 41200612	1867.60	3744.20		
RR No. 41200613	2003.92	3/44.20		
Total	3871.52	3744.20	127.32	6.82%

UNIT II	UoM	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	2019-20
GEN GROSS	MUs	59.88	77.78	64.91	61.59	60.50	58.57	61.41	63.04	58.53	64.17	56.77	56.05	743.2
TOTAL COAL CONS	MT	37935	51080	42448	40256	41276	46675	45852	39613	31902	35991	33025	35892	481945
LDO CONS	KL	177	15.0	17.0	6.0	5.0	0.0	45.1	1.0	7.00	0.0	3.00	3.00	279
WEIGHTED AVG Coal GCV	KCal/kg	3997	3847	3884	3893	3728	3186	3391	4046	4677	4541	4379	3984	3918.08
TOTAL HEAT INPUT COAL	MCal	151617645	196520015	164859605	156697908	153870532	148719254	155494909	160269780	149192624	163436775	144620745	143002117	1888301909
HEAT INPUT LDO	MCal	1610700	136500	154700	54600	45500	0	410774	9100	63700	0	27300	27300	54600
G TOTAL HEAT INPUT	MCal	153228345	196656515	165014305	156752508	153916032	148719254	155905683	160278880	149256324	163436775	144648045	143029417	1890842083
HEAT RATE	Kcal/kWh	2559	2528	2542.15	2545	2544	2539	2539	2542	2550	2547	2548	2552	2544
		I.												
UNIT III	UoM	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	2019-20
		APR 63.76	MAY 81.49	JUN 68.93	JUL 67.03	AUG 62.29	SEP 58.78	OCT 58.99	NOV 65.41	DEC 56.60	JAN 47.99	FEB 49.46	MAR 40.55	2019-20 721.3
UNIT III	UoM									_				
UNIT III GEN GROSS	UoM MUs	63.76	81.49	68.93	67.03	62.29	58.78	58.99	65.41	56.60	47.99	49.46	40.55	721.3
UNIT III GEN GROSS TOTAL COAL CONS	UoM MUs MT	63.76 40683	81.49 53405	68.93 43987	67.03 43952	62.29 42216	58.78 46707	58.99 45395	65.41 41624	56.60 31879	47.99 26686	49.46 28586	40.55 26287	721.3 471408
UNIT III GEN GROSS TOTAL COAL CONS LDO CONS	UoM MUs MT KL	63.76 40683 54	81.49 53405 9.0	68.93 43987 18.0	67.03 43952 11.4	62.29 42216 3.0	58.78 46707 5.0	58.99 45395 12.0	65.41 41624 5.4	56.60 31879 0.88	47.99 26686 3.7	49.46 28586 55.00	40.55 26287 3.00	721.3 471408 180
UNIT III GEN GROSS TOTAL COAL CONS LDO CONS WEIGHTED AVG COAl GCV	UoM MUs MT KL KCal/kg	63.76 40683 54 3978	81.49 53405 9.0 3860	68.93 43987 18.0 3980	67.03 43952 11.4 3878	62.29 42216 3.0 3754	58.78 46707 5.0 3197	58.99 45395 12.0 3303	65.41 41624 5.4 3999	56.60 31879 0.88 4539	47.99 26686 3.7 4595	49.46 28586 55.00 4406	40.55 26287 3.00 3949	721.3 471408 180 3892.13
UNIT III GEN GROSS TOTAL COAL CONS LDO CONS WEIGHTED AVG COAI GCV TOTAL HEAT INPUT COAL	MUS MT KL KCal/kg MCal	63.76 40683 54 3978 161853079	81.49 53405 9.0 3860 206162177	68.93 43987 18.0 3980 175086905	67.03 43952 11.4 3878 170428623	62.29 42216 3.0 3754 158466741	58.78 46707 5.0 3197 149332140	58.99 45395 12.0 3303 149937608	65.41 41624 5.4 3999 166450031	56.60 31879 0.88 4539 144696015	47.99 26686 3.7 4595 122616856	49.46 28586 55.00 4406 125958635	40.55 26287 3.00 3949 103795035	721.3 471408 180 3892.13 1834783845

	LIST	of Asset	Decapit	alized alongwith	n depreciat	ed value(%)						AN	INEXURE RS	,
					Mid of Cap yea	30-09-2010	30-09-2019	30-09-2025		Des sets				
	Org Val	70% of	Max Dep	Date of cap of Asset	Mid of Cap	No	o. of days in Serv	vice .	Dep rate	Dep rate (Reg		ed till date of	Cum Dep	Deprecia
Scheme/item Name		Org Val	Val	bate of cap of risset	year				(PPA Period)	Regime)		ecap		ed val (%
536800 (UPS battery Banks)	FY 20 10.00	7.00	9.00	01-04-2000	01-04-2000	FY 11 3835	FY 20 7122	FY 26 9314	33.40%	5.28%	FY 11 9.00	FY 20	Total 9.00	10.009
Swithcgear Equipments	223.76	156.63	201.38	01-04-2000	30-09-2000	3653	6940	9132	7.84%	5.28%	175.57	15.49	191.06	14.629
Tata sumo SA+series,JH-05-F6734	4.62	3.23	4.16	23-12-2003	30-09-2002	2923	6210	8402	33.40%	9.50%	4.16		4.16	10.009
Tata sumo SA+series-AC	4.35	3.04	3.91	31-03-2004	30-09-2003	2558	5845	8037	33.40%	9.50%	3.91	2.24	3.91	10.009
Burner Panel Bends 2X 60 KVA UPS	32.33 13.35	22.63 9.34	29.10 12.01	01-02-2001 01-02-2001	30-09-2000 30-09-2000	3653 3653	6940 6940	9132 9132	7.84% 33.40%	5.28% 5.28%	25.37 12.01	2.24 0.00	27.60 12.01	14.629
Up gradation of Unit 2 Turbine Super Visory System	43.17	30.22	38.85	01-02-2001	30-09-2000	3653	6940	9132	7.84%	5.28%	33.87	2.99	36.86	14.629
Up Gradation of Furnace Safeguard & Supervisory System and	180.91	126.64	162.82	01-02-2002	30-09-2001	3288	6575	8767	7.84%	5.28%	127.77	19.72	147.48	18.489
Replacement of Dead Tank CT with Live Tank CT Laptop Toshiba 4GB inteli5 500GB 158006360	10.40 0.45	7.28 0.316	9.36 0.41	01-02-2002 31-03-2015	30-09-2001 30-09-2014	3288 0	6575 1827	8767 4019	7.84% 33.40%	5.28% 15.00%	7.34	1.13 0.321	8.48 0.32	18.489 28.939
Laptop Toshiba 4GB intelis 500GB 158006359	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006349	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006344 Laptop Toshiba 4GB inteli5 500GB 158006334	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006334	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006332	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006331	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827 1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006330 Laptop Toshiba 4GB inteli5 500GB 158006329	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006328	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%		0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006327	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006326 Laptop Toshiba 4GB inteli5 500GB 158006325	0.45	0.316 0.316	0.41	31-03-2015 26-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006324	0.45	0.316	0.41	26-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006323	0.45	0.316	0.41	26-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006320 Laptop Toshiba 4GB inteli5 500GB 158006319	0.45	0.316 0.316	0.41	26-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006319 Laptop Toshiba 4GB inteli5 500GB 158006317	0.45	0.316	0.41	31-03-2015 31-03-2015	30-09-2014	0	1827	4019 4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006316	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006312	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006311 Laptop Toshiba 4GB inteli5 500GB 158006310	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB intelis 500GB 158006310	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006306	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
DELL LATTUDE 3490 LAPTOP L4443 158011327 Laptop Toshiba 4GB inteli5 500GB 158006407	0.57 0.45	0.401 0.316	0.52 0.41	24-11-2018 31-03-2015	30-09-2018 30-09-2014	0	366 1827	2558 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.086 0.321	0.09	84.969 28.939
Laptop Toshiba 4GB inteli5 500GB 158006407 Laptop Toshiba 4GB inteli5 500GB 158006406	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006405	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006404	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006400 Laptop Toshiba 4GB inteli5 500GB 158006399	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB intelis 500GB 158006396	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006395	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006391	0.45 0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006390 Laptop Toshiba 4GB inteli5 500GB 158006388	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006382	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006381	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006378 Laptop Toshiba 4GB inteli5 500GB 158006377	0.45 0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB intelis 500GB 158006377	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006372	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006368 Laptop Toshiba 4GB inteli5 500GB 158006367	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006367 Laptop Toshiba 4GB inteli5 500GB 158006366	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006364	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006362	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006361 Laptop Toshiba 4GB inteli5 500GB 158006239	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006237	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006234	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006233	0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827	4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006232 Laptop Toshiba 4GB inteli5 500GB 158006225	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827 1827	4019 4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006224	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006222	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%		0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006221 Laptop Toshiba 4GB inteli5 500GB 158006220	0.45 0.45	0.316 0.316	0.41	31-03-2015 17-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB intelis 500GB 158006220	0.45	0.316	0.41	17-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006217	0.45	0.316	0.41	17-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006215	0.45	0.316 0.316	0.41	17-03-2015 17-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006210 Laptop Toshiba 4GB inteli5 500GB 158006209	0.45	0.316	0.41	17-03-2015 17-03-2015	30-09-2014	0	1827	4019 4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006208	0.45	0.316	0.41	17-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006207	0.45	0.316	0.41	17-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006204 Laptop Toshiba 4GB inteli5 500GB 158006203	0.45 0.45	0.316 0.316	0.41	17-03-2015 17-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006203 Laptop Toshiba 4GB inteli5 500GB 158006202	0.45	0.316	0.41	17-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006201	0.45	0.316	0.41	17-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
JPP/Laptop/12-13/22 & 23 158006191	0.47	0.327	0.42	31-03-2014	30-09-2013	0	2192	4384	33.40%	15.00%	0.00	0.344	0.34	26.359
JPP/Laptop/12-13/28 158006184 JPP/Laptop/12-13/02 158006169	0.47	0.327 0.256	0.42	31-03-2014 31-03-2014	30-09-2013 30-09-2013	0	2192 2192	4384 4384	33.40% 33.40%	15.00% 15.00%	0.00	0.344	0.34	26.359
Laptop Toshiba 4GB inteli5 500GB 158006305	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006304	0.45	0.316	0.41	26-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB-L2855 158006303 Laptop Toshiba 4GB inteli5 500GB 158006300	0.45	0.316 0.316	0.41	31-03-2015 26-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006300 Laptop Toshiba 4GB inteli5 500GB 158006299	0.45	0.316	0.41	26-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006297	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006295	0.45 0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006294 Laptop Toshiba 4GB inteli5 500GB 158006278	0.45	0.316 0.316	0.41	26-03-2015 26-03-2015	30-09-2014 30-09-2014	0	1827	4019 4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB intelis 500GB 158006278 Laptop Toshiba 4GB intelis 500GB 158006257	0.45	0.316	0.41	26-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006256	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006254	0.45	0.316	0.41	31-03-2015	30-09-2014 30-09-2014	0	1827	4019 4019	33.40%	15.00% 15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006251 Laptop Toshiba 4GB inteli5 500GB 158006248	0.45 0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00%	0.00	0.321 0.321	0.32	28.93 28.93
Laptop Toshiba 4GB inteli5 500GB 158006247	0.45	0.316	0.41	26-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
Laptop Toshiba 4GB inteli5 500GB 158006246	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.939
Laptop Toshiba 4GB inteli5 500GB 158006243 Laptop Toshiba 4GB inteli5 500GB 158006242	0.45 0.45	0.316 0.316	0.41	31-03-2015 31-03-2015	30-09-2014 30-09-2014	0	1827 1827	4019 4019	33.40% 33.40%	15.00% 15.00%	0.00	0.321 0.321	0.32	28.939
Laptop Toshiba 4GB Inteli5 500GB 158006242 Laptop Toshiba 4GB Inteli5 500GB 158006241	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93
	0.45	0.316	0.41	31-03-2015	30-09-2014	0	1827	4019	33.40%	15.00%	0.00	0.321	0.32	28.93

 Total IT Equipments
 42.06
 29.60
 29.62%

INDIAN INCOME TAX RETURN ACKNOWLEDGEMENT

[Where the data of the Return of Income in Form ITR-1 (SAHAJ), ITR-2, ITR-3, ITR-4(SUGAM), ITR-5, ITR-6, ITR-7 filed and verified]

(Please see Rule 12 of the Income-tax Rules, 1962)

Assessment Year 2020-21

PAN		AAACT0054A			*
Name		THE TATA POWER CO LTD	X		
Addre	ss	BLOCK B, 5TH FLOOR, , 34 SANT TUKAF	RAM ROAD, Mumbai, MUMBAI, MAHARASH	ITRA, 40	00009
Status		Plc Company	Form Number	ITR-6	
Filed u	ı/s	139(1)-On or before due date	e-Filing Acknowledgement Number	24898	31661100221
S	Current	Year business loss, if any	CHESTER III	1	4827502202
etail	Total In	come	Karaga N/		0
ax d	Book Pr	ofit under MAT, where applicable	MATER NO.	2	333812109
T pu	Adjusted	d Total Income under AMT, where applica	ble	3	0
ıe ar	Net tax p	payable	(tall 2019) ///	4	58323651
оэц	Interest	and Fee Payable	सन्यक्षेत्र वसाने / / / /	5	0
Taxable Income and Tax details	Total tax	x, interest and Fee payable	33 NJ	6	58323651
axab	Taxes Pa	aid	्य गर्गा के जी ।	7	753824982
H	(+)Tax P	Payable /(-)Refundable (6-7)	8-32	8	-695501330
X	Dividend	d Tax Payable	120	9	0
nd n Ta s	Interest	Payable	- DIMP	10	. 0
Dividend tribution ' details	Total Di	vidend tax and interest payable	TAX DEPAY	11	. 0
Dividend Distribution Tax details	Taxes Pa	aid		12	0
Di	(+)Tax F	Payable /(-)Refundable (11-12)	The state of the s	13	0
Гах	Accreted	l Income as per section 115TD		14	0
જ	Addition	nal Tax payable u/s 115TD		15	0
Accreted Income & Tax Detail	Interest	payable u/s 115TE		16	0
d Inco Deta	Addition	nal Tax and interest payable		17	0
rete	Tax and	interest paid		18	0
Acc	(+)Tax P	Payable /(-)Refundable (17-18)		19	0
Incom	e Tax Re	eturn submitted electronically on 10-02-2	021 16:12:42 from IP address 103.113	5.97.2	and verified by
PRAY	EER SIN	NHA		*	
having Digita	_	ALJPS8886J on 10-02-2021 16:1	2:42 from IP address 103.115.97.	2	using
DSC d	1	122558082475871CN=Verasys CA 2014,2.5.4.51=#13294f6666696365204e6f2e20323	\$12c20326e6420466c6f6f722c20426861766e6120427	5696c6469	6667,STREET=V.S.

DO NOT SEND THIS ACKNOWLEDGEMENT TO CPC, BENGALURU

DETAILS OF ADMINISTRATIVE AND GENERAL EXPENSES FOR FY 2019-20

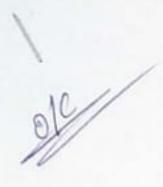
(Rs. In Lakh)

SI. No.	ITEM	2019-20 (U2)	2019-20 (U3)	
1	2	3	4	5
	Breakup of A&G Expenses :			
1	Insurance	113.80	91.17	Expenses towards Stock and Asset Insurance
2	Security	54.08	54.08	Expenses towards Security Manpower
	Administrative Expenses :			
3	- Rent	7.55	7.55	Rent for Quarters
4	Traveling and conveyance	23.36	23.20	Expenses towards Vehicle Hire Charges, Official Travelling Expenses etc.
5	Communication expenses	4.63	4.63	Expenses towards Landline, Internet and Broandband
6	Advertising	22.68	21.89	
7	Miscellaneous Expenses	5.53	6.21	Other miscellaneous Head
	Sub-Total (Administrative Expenses)	63.74	63.46	
8	Other General Expenses	396.65	425.90	Expenses towards Auditor Remuneration, Consultant Expenses, Local doctors Fees, Pathological Test, Pantry, Courier, Rates and Taxes, Rent of Local Guest House, Printing, Provision, Stationery, Training, GST Audit Fees and other certification charges, R&R Gift etc.
	Total A&G Expenses	628.27	634.61	

Notes: In addition to above, Head office Expenses, Water charges and Ash Disposal Expeses are claimed separately as per extant Regulations and approach followed in previous Order.

S.	Particulars	Purpose of Capital Spares
No 1	Turbine and Generator Bearing Sets	In total there are 5 bearings in each Turbine - Generator assembly. The basic purpose of such bearings at the end of module (HP-IP, LP & Generator Module) is to support shaft during rotation and prevent vibration in the system. These turbine bearings are critical in nature and have high lead time to manufacture and deliver. It is submitted that available spare bearing was consumed in Unit 3 in the last control period to attend the damaged bearing. The damaged bearing was sent to M/s S.V. Turbo Engineering Works (P) Ltd. for repairing/re-babitting, however, as observed by the vendor the bearings were no more usable as the bearing outer shell spherical surface is not repairable and also the parent material of bearing shell is deformed. Accordingly, the Petitioner proposed for a spare bearing to mitigate any failure which could have caused shutdown of Units affecting power supply.
2	Coal Mill Gear Box	Accordingly, cost incurred towards part of the supply in 2019-20 has been claimed in true-up of 2019-20. Coal Mill grinds the coal into fine powder which is continuously fed in the boiler for continuous use. The drive of the motor is transferred to coal mill by means of gear box. The gear box is critical in nature and have high lead time of procurement. Unavailability of any coal mill for longer period can cause lower generation hampering overall expected power supply from these Units.
		Due to vintage and various factors like coal dust ingression through the gear box oil seal, generation of metallic chips due to erosion of gear teeth, the gearbox is prone to failure/breakdown. Moreover, in monsoon season, rate of Coal mill feed pipe blockade is high and, therefore, frequent changeover of coal mill is required to clear the blockage. Hence, together these failures pose serious risk to unit availability. In view of above, a spare gear box was proposed to be procured to attend any emergency situation since dismantling coupled with entire repair and restoration of Coal Mill Gear Box is a time-consuming process. Accordingly, cost incurred towards part of the supply in 2019-20 has been claimed in true-up of 2019-20.
3	Turbine Stop & Control Valve Actuator	The steam generated in boiler is transferred to Turbine by means of Main-steam line. At the inlet of turbine there is Stop valve and Control valves to regulate the steam ingress into the turbine as per load demand. Stop valve is a full open and full close type whereas Control valve is partial open and partial close type (its opening and closing depends upon load demand, with less load demand it opens less and with high load demand it opens more). Stop valve and Control valve work together. At first Stop valve opens and then subjected to load demand Control valve opens. With the ingress of steam inside the turbine leads to rotation of

		turbine rotor to rated RPM. These valves are very essential for safe operation of the Units. These valves are capital spares and are having high lead time of procurement. These valves are in service since inception. Because of continuous operation, condition of the valves has deteriorated and they have outlived useful life, therefore, it was high time to have a set of spare to restore the Units in any exigency. Accordingly, cost incurred towards part of the supply in 2019-20 has been claimed in true-up of 2019-20.
4.	Procurement of Critical Spares for Turbine and DCS Cards	Control System of the Plant is very essential for the real time monitoring and operation of the Units. Such tasks are performed through various processors/cards. These cards are capital in nature and have high lead time of procurement since most of them are supplied from abroad. Following spares have been procured under this head in FY 2019-20 and cost incurred towards such supply have been claimed in true-up of 2019-20.





JPP/CHP/<u>1</u>41/2019 09th September' 2019

To
The General Manager (M & S),
Central Coalfields Limited
Darbhanga House, Ranchi
Jharkhand.

Reg: Submission of Amended PPA of specified end use plant (Unit 2 & Unit 3) and Order approved by Jharkhand State Regulatory Commission dated-06th September'2019.

Dear Sir,

We are submitting following self-certified documents for signing of Fuel Supply Agreement (FSA) against second round of Auction under para B(ii) of SHAKTI Policy.

- a. Copy of Amended Power Purchase Agreement (PPA) dated 07th September'19.
- b. Copy of Order approved by appropriate Commission (Jharkhand State Regulatory Commission, Ranchi) as per paragraph B(ii) of the Policy.

Please acknowledge the receipt and request to expedite signing of FSA.

Thanking You Yours Faithfully

For The Tata Power Co Ltd

Ougesh Sharma) 9/9/19
Group Head - CHP



TATA POWER

The Tata Power Company Limited Jojobera Power Plant, Jamshedpur - 831016 Tel 91 657 2276879, 6511543

Registered Office Bombay House 24 Homl Mody Street Mumbai 400 001



JPP/CHP/142/2019 09th September' 2019

To
The GM (S & M)
Eastern Coalfields Limited
13, R.N. Mukherjee Road,
Kolkata, PIN-700001

Reg: Submission of Amended PPA of specified end use plant (Unit 2 & Unit 3) and Order approved by Jharkhand State Regulatory Commission dated-06th September'2019.

Dear Sir,

We are submitting following self-certified documents for signing of Fuel Supply Agreement (FSA) against second round of Auction under para B(ii) of SHAKTI Policy.

- a. Copy of Amended Power Purchase Agreement (PPA) dated 07th September'19.
- b. Copy of Order approved by appropriate Commission (Jharkhand State Regulatory Commission, Ranchi) as per paragraph B(ii) of the Policy.

Please acknowledge the receipt and request to expedite signing of FSA.

Thanking You Yours Faithfully

For The Tata Power Co Ltd

(Durgesh Sharma) 9 91915

Group Head - CHP



JPP/CHP/146/2019 09th September' 2019

To
The General Manager (M & S),
Mahanadi Coalfields Limited
PO: Jagriti Vihar, Sambalpur,
Odisha, PIN - 768020

Reg: Submission of Amended PPA of specified end use plant (Unit 2 & Unit 3) and Order approved by Jharkhand State Regulatory Commission dated- 06^{th} September'2019.

Dear Sir,

We are submitting following self-certified documents for signing of Fuel Supply Agreement (FSA) against second round of Auction under para B(ii) of SHAKTI Policy.

- a. Copy of Amended Power Purchase Agreement (PPA) dated 07th September'19.
- b. Copy of Order approved by appropriate Commission (Jharkhand State Regulatory Commission, Ranchi) as per paragraph B(ii) of the Policy.

Please acknowledge the receipt and request to expedite signing of FSA.

powe,

Thanking You Yours Faithfully

For The Tata Power Co Ltd

(Durgesh Sharma) 9) Group Head – CHP

Date: September 14, 2019

COAL INDIA LIMITED

Corrigendum 5 to Scheme Document for the Second Round of Auction of Coal Linkages for IPPs having already Concluded Long Term PPAs dated March 18, 2019 ("Scheme Document")

The following amendments and insertions are applicable to the Scheme Document.

Sl. No. 1	Reference to Scheme Document:
	3.6.8: Submissions by Provisional Successful Bidder(s)

As appearing in the original Scheme Document

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **60** (**sixty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

To be read as

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **105** (**hundred and five**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

Date: October 25, 2019

COAL INDIA LIMITED

Corrigendum 6 to Scheme Document for the Second Round of Auction of Coal Linkages for IPPs having already Concluded Long Term PPAs dated March 18, 2019 ("Scheme Document")

The following amendments and insertions are applicable to the Scheme Document.

Sl. No. 1	Reference to Scheme Document:
	3.6.8: Submissions by Provisional Successful Bidder(s)

As appearing in the original Scheme Document

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **60** (**sixty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

To be read as

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **150** (**hundred fifty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

Date: December 18, 2019

COAL INDIA LIMITED

Corrigendum 7 to Scheme Document for the Second Round of Auction of Coal Linkages for IPPs having already Concluded Long Term PPAs dated March 18, 2019 ("Scheme Document")

The following amendments and insertions are applicable to the Scheme Document.

Sl. No. 1	Reference to Scheme Document:
	3.6.8: Submissions by Provisional Successful Bidder(s)

As appearing in the original Scheme Document

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **60** (**sixty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

To be read as

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **195** (one hundred and ninety five) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

Date: February 10, 2020

COAL INDIA LIMITED

Corrigendum 8 to Scheme Document for the Second Round of Auction of Coal Linkages for IPPs having already Concluded Long Term PPAs dated March 18, 2019 ("Scheme Document")

The following amendments and insertions are applicable to the Scheme Document.

Sl. No. 1	Reference to Scheme Document:
	3.6.8: Submissions by Provisional Successful Bidder(s)

As appearing in the original Scheme Document

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **60** (**sixty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

To be read as

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **240** (**two hundred and forty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

Date: April 23, 2020

COAL INDIA LIMITED

Corrigendum 9 to Scheme Document for the Second Round of Auction of Coal Linkages for IPPs having already Concluded Long Term PPAs dated March 18, 2019 ("Scheme Document")

The following amendments and insertions are applicable to the Scheme Document.

Sl. No. 1	Reference to Scheme Document:
	3.6.8: Submissions by Provisional Successful Bidder(s)

As appearing in the original Scheme Document

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **60** (**sixty**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

To be read as

3.6.8 Submissions by Provisional Successful Bidder(s)

Each Provisional Successful Bidder will be required to submit the following documents and information, within **300** (**three hundred**) days of issuance of LOI to such Provisional Successful Bidder or such additional time period as may be prescribed by CIL at its sole and absolute discretion:

- 3.6.8.1 Submission of copy of each Amended PPA, along with the approval letter from the appropriate commission; and
- 3.6.8.2 Submission of the documents specified in **Annexure X**, as applicable, to the relevant Subsidiary

Kumar Dilip

From: Tiwari Vikas

Sent: 05 May 2020 18:13

To: Kumar Dilip

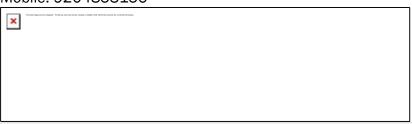
Subject: FW: Documents for signing Tripartite Agreement

Regards, Vikas Tiwari

Lead Engineer - CHP

The Tata Power Company Limited, Jojobera Power Plant, Jamshedpur 831 016 Jharkhand, India

Mobile: 9204853156



From: Sunil Barad <sunil.barad@qcin.org>
Sent: Monday, March 16, 2020 10:49 AM
To: Tiwari Vikas <vikast@tatapower.com>

Subject: Fwd: Documents for signing Tripartite Agreement

[EXTERNAL sender, Exercise caution..!]

From: Sunil Barad

Sent: Monday, March 16, 2020 10:47:13 AM

To: vikast@tatwpower.com <vikast@tatwpower.com>; jojo-clg@tatapower.com <jojo-clg@tatapower.com>

Cc: Siddharth Banerjee < siddharthbanerjee@qcin.org >; Varun Singh < varun.singh@qcin.org >; Abhishek Kumar Singh

<abhishek.kumar@qcin.org>

Subject: Documents for signing Tripartite Agreement

Dear Sir,

Trust you are doing well!

This is for your kind information that that please share the soft copies of the following documents so that we can check and keep draft ready before signing i.e 17th march 2020.

- 1. Board resolution of Authorised signatory duly certified by Nominated Director and attested by CS.
- 2. Copy of all FSAs soft copy(For Linkage customers)/ Copy of sale intimation letter provided by MSTC/Metal Junction duly notarised.

3. Copy of Bidder Id card duly notarised.

Regards,
Sunil Barad
Quality Council of India
+91-9776473282/7978596760

Kumar Dilip

From: Tiwari Vikas

Sent: 05 May 2020 18:08

To: Kumar Dilip

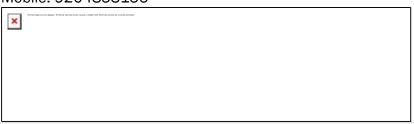
Subject: FW: Regarding signing of tripartite agreement

Regards, Vikas Tiwari

Lead Engineer - CHP

The Tata Power Company Limited, Jojobera Power Plant, Jamshedpur 831 016 Jharkhand, India

Mobile: 9204853156



From: GM Quality <gmqmccl2@gmail.com>
Sent: Wednesday, February 26, 2020 4:56 PM
To: Ashutosh Singh <ashutosh.singh@qcin.org>

Cc: Tiwari Vikas <vikast@tatapower.com>; Abhishek Mazumdar <abhishek.m@qcin.org>; Nakul Gupta <nakul@qcin.org>; Kuwar Ashish <kuwar.ashish@qcin.org>; Shubham Saxena <shubham.saxena@qcin.org>; Shivam Saxena <shivamsaxena@qcin.org>; Utkarsh Pandey <utkarsh.pandey@qcin.org>; Abhijeet Rai <abhijeet@qcin.org>; QCI Coal <qci.coal@qcin.org>

Subject: Re: Regarding signing of tripartite agreement

[EXTERNAL sender, Exercise caution..!]

Thanks for the mail.

On Wed, Feb 26, 2020 at 4:04 PM Ashutosh Singh ashutosh.singh@qcin.org wrote:

Dear Sir,

This is regarding "Third Party Sampling, Testing and Analysis of Coal to consumers of Power Sector (Including IPP's) taking Coal under Shakti Scheme/Special Forward Auction and/or any e-auction scheme(s) and Non-Power Sectors (Including CPP's) taking Coal under FSA and/or any linkage auction / e- auction scheme(s). " by Quality Council of India (QCI).

As per the mutual discussion, the meeting for signing of Tripartite Agreement in CCL is scheduled on 28th February, 2020 (Friday) at GM(QM) CCL-office, Ranchi at 11:00 AM for The Tata Power Company Limited.

In case of any query or clarification kindly contact the undersigned.

Warm Regards,

Ashutosh Singh

Project Planning & Implementation Division

Quality Council of India

+919540455000





Ref: JPP/CHP/70/2020

Date: 23/03/2020

To,
The General Manager (M & S),
Central Coalfields Limited,
Darbhanga House, Kutchery Road,
Ranchi-834029, Jharkhand

Subject:

Restriction for Coal Rake loading to Tata Power, PTJT Siding

Dear Sir,

With reference to the "State lockdown notice issued by Government of Jharkhand, on 22nd March'20", we would like to inform you that all the industries in the state (other then essential services) are being shut down, this shut down has consequently decreased the power requuirement of the state.

Further to this, we have reduced our manpower to minimum essential requirement to maintain the system, as per the precautionary measure suggested by our Hon'ble Prime Minister of India, Shri Narendra Modi, regarding current scenario of COVID-19 in our country.

In view of above, we request you to kindly stop the loading of coal rake for Tata Power's, PTJT siding with immediate effect for next 20 days, so that we can honor the suggestion of our Hon'ble Prime Minister of India, regarding running of essential services with minimum essential manpower

We are very hopeful, that you will consider our request and stop the coal loading for Tata Power's PTJT Siding for next 20 days.

Thanking you,

For The Tata Power Company

Aditya Verma

(Group Head-Coal Logistics&Operations)

Encl : Notice by Gov of Jharkhand for State lockdown, Dated- 22nd March 2020





Ref: JPP/CHP/72/2020

Date: 23/03/2020

To,
The General Manager (M & S),
Eastern Coalfields Ltd,
Sanctoria, Dishergarh – 713333
Burdwan (W.B)

Subject:

Restriction for Coal Rake loading to Tata Power, PTJT Siding

Dear Sir,

With reference to the "State lockdown notice issued by Government of Jharkhand, on 22nd March'20", we would like to inform you that all the industries in the state (other then essential services) are being shut down, this shut down has consequently decreased the power requirement of the state.

Further to this, we have reduced our manpower to minimum essential requirement to maintain the system, as per the precautionary measure suggested by our Hon'ble Prime Minister of India, Shri Narendra Modi, regarding current scenario of COVID-19 in our country.

In view of above, we request you to kindly stop the loading of coal rake for Tata Power's, PTJT siding with immediate effect for next 20 days, so that we can honor the suggestion of our Hon'ble Prime Minister of India, regarding running of essential services with minimum essential manpower

We are very hopeful, that you will consider our request and stop the coal loading for Tata Power's PTJT Siding for next 20 days.

Thanking you,

For The Tata Power Company Ltd.

Aditya Verma

(Group Head-Coal Logistics&Operations

Encl: Notice by Gov of Jharkhand for State lockdown, Dated- 22nd March 2020

JAMSHEDPU





Ref: JPP/CHP/71/2020

Date: 23/03/2020

To,
The General Manager (M & S),
Mahanadi Coalfields Limited,
Jagriti Vihar, Sambalpur
Orissa-768020

Subject:

Restriction for Coal Rake loading to Tata Power, PTJT Siding

Dear Sir,

With reference to the "State lockdown notice issued by Government of Jharkhand, on 22nd March'20", we would like to inform you that all the industries in the state (other then essential services) are being shut down, this shut down has consequently decreased the power requirement of the state.

Further to this, we have reduced our manpower to minimum essential requirement to maintain the system, as per the precautionary measure suggested by our Hon'ble Prime Minister of India, Shri Narendra Modi, regarding current scenario of COVID-19 in our country.

In view of above, we request you to kindly stop the loading of coal rake for Tata Power's, PTJT siding with immediate effect for next 20 days, so that we can honor the suggestion of our Hon'ble Prime Minister of India, regarding running of essential services with minimum essential manpower

We are very hopeful, that you will consider our request and stop the coal loading for Tata Power's PTJT Siding for next 20 days.

Thanking you,

For The Tata Power Company

Aditya Verma

(Group Head-Coal Logistics&Operations)

Encl: Notice by Gov of Jharkhand for State lockdown, Dated- 22nd March 2020

JAMSHEDPUR





Ref: JPP/CHP/03/2020

Date: 15/04/2020

To,
The General Manager (M&S)
Mahanadi Coalfields Limited

Jagruti Vihar, Burla, Sambalpur-768020

Subject: Restriction for Coal Rake Loading for Tata Power, PTJT Siding (72203590)

Dear Sir,

With reference to the extension of "Nation lockdown period till 3rd May' 20", we would like to inform you that, we are facing huge difficulties in plant operation due to manpower crisis. Workers are not coming to plant in fear of COVID-19 Pandemic.

In view of above, we regret to inform you that, we are not in position to unload any coal rakes due to manpower crisis.

We are very hopeful, that you will understand our situation and stop the coal rake Loading in account of Tata Power's PTJT Siding till Lockdown period continues.

Thanking you, Yours Sincerely,

For The Tata power Company Limited

JAMSHEDPUR

Aditya Verma

Group Head-Coal Logistics & Operation

Cc:

- 1) Sr. DOM, SER-CKP
- 2) Sr. DCM, SER-CKP
- 3) ARM Tatanagar





Ref: JPP/CHP/17/2020

Date: 14/05/2020

To,
The General Manager (M & S),
Eastern Coalfields Ltd,
Sanctoria, Dishergarh – 713333
Burdwan (W.B)

Subject: Deferment of April'20 & May'20 Quota of Coal Rake loading on account of Tata Power, PTJT

Dear Sir,

With reference to the "State lockdown notice issued by Government of Jharkhand, on 22nd March'20", we would like to inform you that all the industries in the state (other than essential services) have been shut down, consequently the power requirement of the state has decreased drastically. Further to this, due to COVOD-19 pandemic, we are not having manpower for coal rake unloading.

Further to this, we have reduced our manpower to minimum essential requirement to maintain the system, as per the precautionary measure suggested by our Hon'ble Prime Minister of India, Shri Narendra Modi, regarding current scenario of COVID-19 in our country.

We would also like to inform you that our customer has indicated us, that due to COVID-19 Pandemic, the power demand is going to be the same as of now, till May'20 end. Due to such low PFL, we have to force shutdown our units.

Requesting you to kindly consider this COVID-19 Pandemic as a Force majeure and extend help to us by deferring April'20 and May'20 Quota to FY'21 months ahead.

W. 72

You are hereby requested to kindly do the needful and oblige

Thanking you,

For The Tata Power Company Alta Po

Aditya Verma

(Group Head-Coal Logistics&Operations)

TATA POWER

The Tata Power Company Limited
Jojobera Power Plant, Jamshedpur - 831016
Tel 91 657 2276879, 6511543



98



Ref: JPP/CHP/16/2020

Date: 14/05/2020

To,
The General Manager (M & S),
Mahanadi Coalfields Limited,
Jagriti Vihar, Sambalpur
Orissa-768020

Subject: Deferment of April'20 & May'20 Quota of Coal Rake loading on account of Tata Power, PTJT

Dear Sir,

With reference to the "State lockdown notice issued by Government of Jharkhand, on 22nd March'20", we would like to inform you that all the industries in the state (other than essential services) have been shut down, consequently the power requirement of the state has decreased drastically. Further to this, due to COVOD-19 pandemic, we are not having manpower for coal rake unloading.

Further to this, we have reduced our manpower to minimum essential requirement to maintain the system, as per the precautionary measure suggested by our Hon'ble Prime Minister of India, Shri Narendra Modi, regarding current scenario of COVID-19 in our country.

We would also like to inform you that our customer has indicated us, that due to COVID-19 Pandemic, the power demand is going to be the same as of now, till May'20 end. Due to such low PFL, we have to force shutdown our units.

Requesting you to kindly consider this COVID-19 Pandemic as a Force majeure and extend help to us by deferring April'20 and May'20 Quota to FY'21 months ahead.

W. C.

You are hereby requested to kindly do the needful and oblige

Thanking you,

For The Tata Power ()

Aditya Verma

(Group Head-Coal Logistics&Operations)

TATA POWER

Note for Approval

Based on inputs received from Jojobera Power Plant (JPP), official records and as per requirements of JSERC (Terms and Conditions for Determination of Tariff) Regulations, 2015/2020, the following is placed for approval regarding Units 2 & 3 of JPP and further submission to Hon'ble JSERC:

- True-up Petition for 2019-20 based on actual operational performance and audited accounts for 2019-20
- 2. Annual Performance Review (APR) Petition for 2020-21 based on latest available actual operational and financial data for current year and projections for balance period
- 3. Business Plan for 2021-22 to 2025-26 covering following aspects:
 - a. Capital Investment Plan Out of total projected estimate of capital expenditure of Rs. 26.47 Crore (total for standalone schemes for Units 2 &3 and common schemes for Units 1 to 5), Rs. 19.61 Crore is allocated to Units 2 & 3
 - Operational Plan Covering projected Availability and PLF with SHR and Auxiliary Consumption as per norms
 - c. Human Resource Plan No increase or reduction in present manpower is proposed
 - d. Since estimation of projected Non-tariff Income is difficult being irregular in nature, it is presently being proposed is Nil subject to true-up later
 - e. Income from Other Businesses utilising assets/manpower of Units 2 & 3 is also being proposed as Nil subject to true-up later
- 4. MYT Petition for 2021-22 to 2015-26 is based on the projections proposed in the Business Plan
- 5. Renovation & Modernisation (R&M) Plan is being proposed to be given after carrying out RLA during next annual outages of the Units.
- 6. Tariff Petition for FGD is required to be filed after completion of the Project and, hence, necessary request for the same is being done

It is also proposed to fund all the Capital Investments through internal accruals only as has been done in the past. Further, since the projections are present estimates and Tariff Regulations 2020 have brought in certain substantial changes, there may be necessity for some modifications in the above proposals before Hon'ble JSERC on need basis which is proposed to be approved.

May kindly grant approval to all the above proposals.

25.11.2020

Noida

(Pankaj Prakash)

Head - Regulatory (ER)

Through

Chief - Regulatory

Chief - Regulatory, Legal and Advocacy

Chief - Generation, The Tata Power Company Limited

Confidential

From : Assistant Director,

Subsidiary Intelligence Bureau, (MHA),

Government of India,

29, Pipeline Road, Sakchi,

Jamshedpur

To : CEO IEL & Chief,

Jamshedpur Operation,

Tata Power Plant.

Jojobera, Jamshedpur.

No. I/TATA//2021(IS) - 409.

Dated- 10.02.2021

Observation: Security set up at Power Plant Jojobera

During our visit and interaction with security officers and other officials of the Tata Power Company Limited, Jojobera, Jamshedpur, it was found that the security of the Tata Power plant needs to be strengthened to thwart any attempt by anti – national elements to sabotage the plant.

Tata Power Company Limited is a power plant of Tata Group. Its registered office is located at Bombay House, Homi Mody Street, Mumbai (Maharashtra).

The Tata Power Company Limited has its unit / branch at Jamshedpur , Jharkhand and it is known as Jojobera Power Plant, Jojobera, P.S - Govindpur, Jamshedpur. It is a vital installation as it supplies power to Tata Steel, Jamshedpur, which is one of the leading producers of steel in India.

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The vulnerability of the plant from security angle is strong as several anti–national outfits are active in East Singhbhum district. There is a presence of CPI (Maoist) in the surrounding areas of Jamshedpur. The Maoists have carried out many violent incidents on several occasions in the past. In the past, many terrorists and sympathizers of AQIS were arrested at Jamshedpur. As such, possibility of threat to the Tata Power plant at Jojobera cannot be ruled – out.

It is a coal – based Thermal generating station, with an installed capacity of 547.5 MW Jojobera Power Plant of the Tata Power Company Ltd. is headed by Jagmit Singh Sidhu, CEO – IEL & Chief – Jamshedpur Operations. In a general working day, there are about 1300 manpower working inside the Jojobera Power Plant, which is spread over an area of 163 acres. During Plant Annual Outages, the manpower number goes up to the level up of the level of 1700. Its security is manned by a private security agency Turrent Industrial Security (TIS).

During our visit and interaction with security officers and other officials of the Tata Power, Jojobera, Jamshedpur, it was found that the security of the plant needs to be strengthened.

Perimeter Security: Needs Raising of perimeter wall and installation of Concertina coil on its top.

The Tata Power Plant is located at Jojobera area of Jamshedpur. Along the perimeter wall of the Tata Power plant, there are two densely populated localities Bhola Begen and Vivek Nagar of Govindpur and village Gadra. The residents of these villages often try to scale the perimeter wall of the power plant through the houses located close to the perimeter wall to

steal the waste materials of the company which are costly. The anti – national elements can also take advantage of it to include in sabotage activities.

The perimeter wall of approx 5 kms length was constructed long ago and it needs repairing immediately. The uneven masonry perimeter wall of the plant is of very low height at some places which makes it vulnerable from security angle. It should be increased at many places from its present height of 5 feet and made even with the rest of the perimeter wall with minimum height of 6 to 8 feet.

Apart from it, there is no concertina wire fencing to protect the plant. Immediate fencing by Concertina wire on top of the of concrete / brick wall is required immediately.

The houses located very close to perimeter wall should be shifted to avoid any security lapse.

Automation of Access control system and integration with Command & Control Centre.

One of the most important aspects of plant security is Access Control of man, material and vehicle. Access control systems are crucial as they provide business/ industry and building with an extra layer of security and control over their assets. The purpose of an access control system is to provide quick and convenient access to those persons who are authorized, while at the same time, restricting access to unauthorized people.

In Tata Power Jojobera the entry/exit of contract workmen is based on paper gate pass issued by the security. It gives ample scope of duplication and imitation of pass, impersonation, trespass by miscreants and other people having vested interests. The manual recording of access does not give the accurate number of employees entering and exiting the power plant especially in any operational, sensitive and critical area of the plant.

Similarly, in absence of integrated vehicle access control system, the security personnel are unable to control the movement (entry / exit) of vehicles. Most of the industries have already adopted integrated biometric access control system as well as vehicle access control system. Hence, there is an immediate need of establishing integrated biometric access control system as well as vehicle access control system.

Installation of CCTV & Command Control Centre (CCC).

At Tata Power Jojobera, the surveillance system needs to be strengthened. At present, there are only 41 security cameras, which are not sufficient for the surveillance of a sprawling complex built in an area of 163 acres. At least, 50 more surveillance cameras are required for proper monitoring of the activities in and around the complex to cover all sensitive areas of plant.

In the absence of integrated Command & Control Centre, the monitoring of CCTV and quick response is neither adequate nor effective. The Command & Control (C&C) system is the heart of security system which provides the real time information, communication mechanism and immediate response from security control room. It provides comprehensive

solution for detection, identification & possible interception of threats. In order to manage daily security events / incidents there is an immediate need of installation of adequate number of CCTVs covering perimeter gates, vital installation and sensitive areas with round the clock system of monitoring at security control room. It should also be equipped with effective communication system to respond effectively in an emergency.

AD/TATANAGAR

Pri lurklai)

ASSISTANT DIRECTOR SIB (MHA) GOVT. OF INDIA JAMSHEDPUR.

	U2 PLF %	U3 PLF %
FY-21	71	61
FY-22	81	81
FY-23	85	83
FY-24	83	89
FY-25	88	83

Kumar Dilip

Saroj Kumar From: 23 July 2020 08:13 Sent: To: Singh Vikrant

ajaykumar.singh; ashutosh.p Cc:

Subject: Fwd: TPCL Unit#2 and Unit#3 PLF FY-21 to FY-25

Attachments: TPCL Unit2 and unit3 PLF LTP.XLSX

[EXTERNAL sender, Exercise caution..!]

Pls find yearly data. Monthly data is not available

Get Outlook for Android

From: Ranjan Kumar <ranjan.kumar2@tatasteel.com>

Sent: Thursday, July 23, 2020 12:17:34 AM To: Saroj Kumar <saroj.kumar@tatasteel.com>

Cc: Ajay Kumar Singh <ajaykumar.singh@tatasteel.com> Subject: TPCL Unit#2 and Unit#3 PLF FY-21 to FY-25

Sir, PFA.

Regards,

Ranjan Kumar

Manager Electrical Maintenance-Electrical Transmission & Distribution (LDC)

Tata Steel Limited

Load Dispatch Centre | TATA Steel Jamshedpur works | Jamshedpur 831 001 Tel +91-657 6643152 | Mobile +91-8235003640 ranjan.kumar2@tatasteel.com | http://www.tatasteel.com



Please Contribute to environmental protection, kindly print this e-mail only if required

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WORK ORDER

VENDOR DETAILS

Vendor Code: 100010084 TCR ADVANCED ENGG. PVT LTD 36/2/9,1ST FLOOR,VADODARA VADODARA: 390010.India

Attn: ABC

Tel: 07574805594

E-mail: TCRADVANCED@TCRADVANCED.COM

Vendor GST No.: 24AABCT3473E1ZL Vendor PAN No. AABCT3473E

ORDER DETAILS

Work Order Ref: 6000049646

Date: 13.07.2020 Currency: INR

Company Representative: Manas Deshmukh

Email: MANASD@TATAPOWER.COM

Our Reference No:

Contractor's Quote reference: TCR/QUO/20-21/003

Version Number 0

OLA Reference No :- NA

Company GST No.:20AAACT0054A2ZE

Sub.: Remnant Life Assessment of Unit#2, 3 & 4 Boilers

(i) Our Ref.: RFQ Ref. No. Doc2361580183 dated 10.04.2020 (ii) Your Offer Ref.: TCR/QUO/20-21/003 dated 17.04.2020

(iii) Your E-mail dated 05.06.2020 & 25.06.2020 regarding negotiation.

The Work Order constitutes Company's offer to Contractor upon the terms and conditions stated herein and shall become a binding Contract, when it is accepted either by Contractor's acknowledgement or performance. The Work Order expressly limits acceptance to the terms and conditions stated herein. Any additional or different terms or conditions proposed by Contractor are objected to and hereby rejected, including without limitation, Contractors quotation or acknowledgement forms. Any reference in the Work Order to Contractors quotation or proposal does not imply acceptance of any terms or conditions in that quotation or proposal. It is important that Contractor signs and returns the Work Order copy within (3) days of receipt. No other forms of acceptance will be accepted. Failure to return the acceptance does not diminish the responsibilities as set forth herein, but may result in delay to any payment that may be due to and may be a cause of termination of this Work Order.

TOTAL ORDER VALUE (Exclusive of all taxes, levies and duties): INR 55,50,000.00. In words: (Rupees Fifty five lakh fifty thousand only).

In words: (Rupe	es Fifty five lakh fifty thousand only).		
[CONTRACTOR'S ACCEPTANCE
			Signature:
Authorized Signatory :			Name:
			Designation:
Approver Name:	Narendra Kumar	Approver	Designation: Head - Contracts (Renewab
order Manager (d	etails below):	· ·	till Contract completion/commissioning of the work by
Order Manager: N	Ir. Tapas Mahato, Mob. 9204425429; E-mail:	tapas.mah	ato@tatapower.com.

WORK ORDER DETAILS
WORK ORDER REF : 6000049646
Version Number 0

PRICE SCHEDULE

Item No.	HSN/SAC Code	Service Description	Qty UOM	Unit Price	Amount
10	998719	REMNANT LIFE ASSESSMENT OF	1.000 AU	18,50,000.00	1850000.00
		IN: Integrated GST - 18 %			
20	998719	REMNANT LIFE ASSESSMENT OF	1.000 AU	18,50,000.00	1850000.00
		IN: Integrated GST - 18 %			
30	998719	REMNANT LIFE ASSESSMENT OF	1.000 AU	18,50,000.00	1850000.00
		IN: Integrated GST - 18 %			

This item includes the following services:

S.No	HSN/SAC Code	Service Code	Service Description	Qty	UOM	Unit Price	Amount
10.10	998719	4157838	RLA TESTING FOR 120 MW BOILER	1	AU	18,50,000.00	18,50,000.00
20.10	998719	4157838	RLA TESTING FOR 120 MW BOILER	1	AU	18,50,000.00	18,50,000.00
30.10	998719	4157838	RLA TESTING FOR 120 MW BOILER	1	AU	18,50,000.00	18,50,000.00
Total C	order Value (Ex	clusive of all taxe	es, levies and duties)				55,50,000.00

Total Order Value: Rupees Fifty five lakh fifty thousand only (Exclusive of all taxes, levies and duties).

COMMERCIAL CONDITIONS

1. Scope:

As per the Scope of Work issued with RFQ and as attached in the PO.

2. Price Basis:

For The Tata Power Co. Limited, Jojobera Power Plant, Jamshedpur.

3. Completion Schedule/Service to be performed at :

Service to be performed for The Tata Power Co. Limited, Jojobera Power Plant, Jamshedpur during ASD of Unit#2, 3 & 4.

4. Payment Terms:

60 Days From GR date

100% payment including taxes within 60 days from the date of receipt of error-free invoice based on actual completion of work at site duly certified by Order Manager.

5. Taxes and Duties:

GST as applicable payable extra. Present rate is 18%.

6. Anti Profiteering Clause:

WORK ORDER DETAILS

WORK ORDER REF: 6000049646

Version Number 0

Notwithstanding anything contained in the Contract, in the event of introduction of any new legislation or any change or amendment or enforcement of any Act or Law, or any change in the interpretation by the Supreme Court of India of any said Act or law, rules or regulations of Government of India or State Government(s) or Public Body which becomes effective after the bid date to the completion of work including defect liability period , if any, which results in any decrease in the cost of the works through reduced liability of taxes & duties, increase in the input tax credits, the Supplier shall pass on the benefits of such reduced cost, taxes or duties to The Tata Power Co. Ltd. to the extent which is directly attributable to such introduction of new legislation or change or amendment as mentioned above as per Anti-profiteering Rules, 2017, hereby, "Tax" or "tax" shall include taxes, duties, levies, cess and similar imposts by whatever name called whether in the nature of Indirect Tax or direct taxes and whether or not imposed by the Central government, state government, local or municipal authority or any other statutory body

7. Compliance of Local Laws:

The Contractor shall be fully responsible for the due compliance by him and his sub-contractors with all statutory requirements and with all applicable labour laws including Contract Labour Abolition and Regulation Act, Workmen's Compensation Act, P.F./E.S.I., Labour welfare fund, Act, etc. as may be applicable to the Contractor, the sub-contractors and their employees. The locations where Allied Manpower Management System (On-line system) has been implemented, the Contractor shall ensure necessary declarations and documents are provided in the system, as per the role of the Contractor envisaged in the system.

The Contractor should get in touch with the local HR/IR/ES&A teams for completion of Statutory compliances before start of the work. The contractor should also ensure that he provides correct and complete PF compliance data for a wage month in

the format provided by the HR/IR/ES&A teams on or before 15th of the subsequent month, failing which penalty of 1% of the value of the Invoice, per day of delay would be deducted from the Invoice raised. Further, the management will also have a right to suspend the work in case of delay in submitting the PF data.

All other compliances required by HR/IR/ES&A teams should also be provided as per timelines.

The Contractor shall fully indemnify and save harmless the Owner from and against all claims, demands, expenses, losses, liabilities, charges, actions, suits and proceedings whatsoever including claims under aforesaid Acts and laws which may be brought or made against the Owner, its Officers or servants by reason or in consequence of any matter or thing done or omitted or delaying the submission of data by the Contractor and/ or its sub-contractors and all costs, charges and expenses which may become payable by the Owner in respect thereof.

8. Performance Parameters & Deductions due to non compliance:

Not applicable.

9. Order Manager:

This order shall be managed by Mr. Tapas Mahato, Mob. 9204425429; E-mail: tapas.mahato@tatapower.com. You are requested to mark him for SES / Invoice in ARIBA Network. from Owner. You are requested to contact him/her for further queries related to execution.

10. Contract Performance Bank Guarantee:

Not applicable.

11. Order of Precedence:

In the event of conflict between the provision of this order along with its attachments and annexure, the following order of precedence shall apply so that the conflicting provision(s) in the document lower in the order of precedence set out below shall give way to the conflicting provision(s) in the document higher in the order of precedence, namely:

- 1. Work Order (with 'Commercial Conditions')
- 2. Special Terms and conditions
- 3. General Terms and conditions
- 4. Technical Specification

12. Modifications to the General Conditions of Contract:

1. The engaged personnel will abide by all safety requirement related to the job and as per TPCL CSCC guide lines . Noncompliance on safety will attract penalty as per CSCC guidelines.

WORK ORDER DETAILS
WORK ORDER REF : 6000049646
Version Number 0

- 2. The service provider will be liable to fulfill all statutory requirements.
- 3. All the transportation charges (to & fro), lodging, boarding etc. of your people will be in your scope.
- 4. The job shall be conducted during ASD of Unit#2, 3 & 4. Confirmation will be given 7 days prior to the desynchronization of machine. However, considering the COVID situation, the feasibility regarding execution of the job shall be studied jointly and siutable decision shall be taken based up on situation as per the directives from government authority.
- 5. Party need to adhere the Gate pass procedure of Tata power as follows:

Gate Passes for Regular Jobs and Temporary Jobs for services.

- 1. Standard Gate Pass application format available with HR/IR department
- 2. ESIC IP no. for all individual eligible workmen to be attached or if new then TIC.
- 3. Insurance under WC (Workmen Compensation) policy required if for eligible workmen withdrawing more than Rs.21,000/- salary per month.
- 4. Individual EPF code no. & UAN of workmen/Vendor/agency/partner copy to be enclosed.
- 5. Application on letter head enclosed with Gate Pass application format with all details.
- 6. For Medical & Safety allowed, after recommended by HOD & approved by competent authority (HR/IR will verify all the legal documents i,e;WO, Labour License, Individual PF Code, UAN, ESIC IP No., Police verification and other details as per gate pass format).
- 7. Gate Passes will be issued as per validity of Medical & Safety or Calendar year quarterly whichever is earlier or short period jobs(Temporary gate pass) on produce of Safety cum Medical Card, Gate Pass filled format, Employment Cards & Attendance cards.
- 8. Safety & Medical will be valid for six months.
- 9. For renewal of gate passes Application on letter head enclosed with Gate Pass application format with all details along with Medical cum Safety Cards, Gate pass filled format, Employment cards & Attendance cards.
- 10. Once the job over all gate passes must be return to Security after forwarded by HOD & verified by HR/IR.
- 11. Monthly Statutory documents (Muster roll, Wage Register, Leave & Bonus sheet, PF & ESIC Monthly challan, ERC of PF and History sheet of ESIC) to be submitted on or before 20th of every month.
- 12. Renewal of Gate Passes and Monthly bills to be cleared after checking of Muster Roll, Wage Register, PF & ESIC Challan, ERC of PF and History sheet of ESIC from individual contribution of previous month.
- 13. Muster Roll / Attendance Register (Form XVI) must be verified by the department before certification of Bills.
- 14. In case of separation or termination of any workers, Full & Final payment will verified by HR/IR as per provision of all applicable acts. Gate pass will also submit to HR/IR along with settlement documents.

Gate passes for Contractor and Partner will be issued for six months after Medical & Safety.

13. Annexure

S.No	HSN/SAC Code	Service Code	Short Description	Long Description	Qty	UOM	Delivery Date
10.10	998719	4157838	RLA TESTING FOR 120 MW BOILER	Remnant Life Assessment of Unit #3 Boiler. Capacity: 120 MW Make:BHEL Testing: The following testing will be performed according to IBR 391 (A)TABLE1 clause (New amendment). 1. Visual Inspection 2. Dimensional measurementfor swelling 3. Ultrasonic Thickness Measurement 4. FiberopticInspection	1	AU	30.03.2021

WORK ORDER DETAILS

WORK ORDER REF: 6000049646

Version Number 0

S.No	HSN/SAC Code	Service Code	Short Description	Long Description	Qty		Delivery Date
				5.Ultrasonic Flaw Detection 6. Magnetic Particle / Dye PenetrantTesting 7.In-situ Metallography # Scanning Electron Microscopy 8. HardnessTesting 9.Accelerated Creep Rupture (ACR) Test 10. Deposit Analysis 11.Destructive Testing of tubes. 12. Testing of Boiler Tubes for HydrogenEmbrittlement Damage Visual Inspection Chemical Analysis PhysicalTesting Microstructure Examination Hardness Testing			
20.10	998719	4157838	RLA TESTING FOR 120 MW BOILER	Internal Scale Analysis Remnant Life Assessment of Unit #3 Boiler. Capacity: 120 MW Make:BHEL	1	AU	30.03.2021
				Testing: The following testing will be performed according to IBR 391 (A)TABLE1 clause (New amendment). 1. Visual Inspection 2. Dimensional measurementfor swelling 3. Ultrasonic Thickness Measurement 4. FiberopticInspection 5. Ultrasonic Flaw Detection 6. Magnetic Particle / Dye PenetrantTesting 7.In-situ Metallography # Scanning Electron Microscopy 8. HardnessTesting 9. Accelerated Creep Rupture (ACR) Test 10. Deposit Analysis 11. Destructive Testing of tubes. 12. Testing of Boiler Tubes for HydrogenEmbrittlement Damage			
				Visual Inspection Chemical Analysis PhysicalTesting Microstructure Examination Hardness Testing Internal Scale Analysis			
30.10	998719	4157838	RLA TESTING FOR 120 MW	Remnant Life Assessment of	1	AU	30.03.2021

WORK	ORDER	DFTAILS	:

WORK ORDER REF: 6000049646

Version Number 0

S.No	HSN/SAC Code	Service Code	Short Description	Long Description	Qty	UOM	Delivery Date
	10000		BOILER	Unit #3 Boiler.			Duto
				Capacity: 120 MW			
				Make:BHEL			
				Testing: The following testing			
				will be performed according			
				to IBR 391 (A)TABLE1 clause			
				(New amendment).			
				1. Visual Inspection			
				2. Dimensional			
				measurementfor swelling			
				3. Ultrasonic Thickness			
				Measurement			
				4. FiberopticInspection			
				5.Ultrasonic Flaw Detection			
				6. Magnetic Particle / Dye			
				PenetrantTesting			
				7.In-situ Metallography #			
				Scanning Electron			
				Microscopy			
				8. HardnessTesting			
				9. Accelerated Creep Rupture			
				(ACR) Test			
				10. Deposit Analysis			
				11.Destructive Testing of			
				tubes.			
				12. Testing of Boiler Tubes			
				for HydrogenEmbrittlement			
				Damage			
				Darriage			
				Visual Inspection			
				Chemical Analysis			
				PhysicalTesting			
				Microstructure Examination			
				Hardness Testing			
				Internal Scale Analysis	1		1

For payment related queries please contact help desk No: +91 2267173636, Email ID: helpdesk-coe@tatapower.com

WORK ORDER

VENDOR DETAILS

Vendor Code: 100000613 GE POWER India Limited

BLOCK-DN, PLOT NO.-62,, West Bengal

KOLKATA: 700091,India Attn: Mr. Tarapada. Das Tel: 033-40060147

E-mail: tarapada.das@ge.com

Vendor GST No.: 19AABCA8679F1ZB

Vendor PAN No. AABCA8679F

ORDER DETAILS

Work Order Ref : 6000051377

Date:06.11.2020 Currency:INR

Company Representative: Probir Kumar Paul Email: PROBIRPAUL@TATAPOWER.COM

Our Reference No: 2021Y0294

Contractor's Quote reference: 1541283

Version Number 0

OLA Reference No :- NA

Company GST No.:20AAACT0054A2ZE

Dear Sir,

Sub: Residual Life Assessment of Unit # 3 120 MW Turbine and its Accessories for jojobera power plant

Our Ref: RFQ No. Doc2511914428

Your Ref: T20E1541283, OFFER NO 1541283

The Work Order constitutes Company's offer to Contractor upon the terms and conditions stated herein and shall become a binding Contract, when it is accepted either by Contractor's acknowledgement or performance. The Work Order expressly limits acceptance to the terms and conditions stated herein. Any additional or different terms or conditions proposed by Contractor are objected to and hereby rejected, including without limitation, Contractors quotation or acknowledgement forms. Any reference in the Work Order to Contractors quotation or proposal does not imply acceptance of any terms or conditions in that quotation or proposal. It is important that Contractor signs and returns the Work Order copy within (3) days of receipt. No other forms of acceptance will be accepted. Failure to return the acceptance does not diminish the responsibilities as set forth herein, but may result in delay to any payment that may be due to and may be a cause of termination of this Work Order.

TOTAL ORDER VALUE (Exclusive of all taxes, levies and duties): INR 37,24,906.00. In words: (Rupees Thirty seven lakh twenty four thousand nine hundred six only).

(· · · · · · · · · · · · · · · · · · ·		
			CONTRACTOR'S ACCEPTANCE
			Signature:
Authorized Signatory :			Name:
			Designation:
Approver Name:	Jayashree Choudhury	Approver	Designation: Head-Cont. & Mat. Jojober
order Manager (det	•	,managed	till Contract completion/commissioning of the work by

WORK ORDER DETAILS
WORK ORDER REF : 6000051377
Version Number 0

PRICE SCHEDULE

Item No.	HSN/SAC Code	Service Description	Qty UON	1 Unit Price	Amount
10	998717	RLA 120MW Turbine & its Aux. IN: Integrated GST - 18 %	1.000 AU	37,24,906.00	3724906.00

This item includes the following services:

S.No	HSN/SAC Code	Service Code	Service Description	Qty	UOM	Unit Price	Amount
10.10	998717	4079304	120MW Turbine RLA	1	AU	26,07,435.00	26,07,435.00
10.20	998717	4080097	120MW Turbine connected Pipe line RLA	1	AU	5,58,735.00	5,58,735.00
10.30	998717	4080096	120 MW LPBP Stop &control valves.	1	AU	3,72,491.00	3,72,491.00
10.40	998717	4080095	120MW HPBP &LPBP stop &CV servo motor	1	AU	1,86,245.00	1,86,245.00
Total C	rder Value (Ex	clusive of all taxe	es, levies and duties)				37,24,906.00

Total Order Value: Rupees Thirty seven lakh twenty four thousand nine hundred six only (Exclusive of all taxes, levies and duties).

COMMERCIAL CONDITIONS

1. Scope:

Residual Life Assessment of Unit # 3 120 MW Turbine and its Accessories for jojobera power plant

2. Price Basis:

The prices stated above are on FOR Jojobera Power Plant basiis. This is a fixed price contract. The prices shall remain firm and no escalation of whatsoever nature will be permissible during the tenure of the contract. Any changes in the taxes & duties will be to Purchasers account, except beyond the guaranteed delivery period, which will be at vendors account. Supply of Material and related services included in the unit price . Boarding , lodging , Travelling and local conveyance is in your scope and included in the price.

3. Completion Schedule/Service to be performed at:

Job to be completed during outage of unit # 3 as per outage scheduled. Mobilization has to be done immediately after confirmation.

4. Payment Terms:

30 days From GR date w/o Retention

100% payment with in 30 Days of completion of job and certification of bill and submission of report

Please select the Scanning Location: 1000:JO01-JOJOBERA

5. Taxes and Duties:

GST @ 18 % EXTRA

WORK ORDER DETAILS

WORK ORDER REF: 6000051377

Version Number 0

6. Anti Profiteering Clause:

Notwithstanding anything contained in the Contract, in the event of introduction of any new legislation or any change or amendment or enforcement of any Act or Law, or any change in the interpretation by the Supreme Court of India of any said Act or law, rules or regulations of Government of India or State Government(s) or Public Body which becomes effective after the bid date to the completion of work including defect liability period, if any, which results in any decrease in the cost of the works through reduced liability of taxes & duties, increase in the input tax credits, the Supplier shall pass on the benefits of such reduced cost, taxes or duties to The Tata Power Co. Ltd. to the extent which is directly attributable to such introduction of new legislation or change or amendment as mentioned above as per Anti-profiteering Rules, 2017, hereby, "Tax" or "tax" shall include taxes, duties, levies, cess and similar imposts by whatever name called whether in the nature of Indirect Tax or direct taxes and whether or not imposed by the Central government, state government, local or municipal authority or any other statutory body

7. Compliance of Local Laws:

The Contractor shall be fully responsible for the due compliance by him and his sub-contractors with all statutory requirements and with all applicable labour laws including Contract Labour Abolition and Regulation Act, Workmen's Compensation Act, P.F./E.S.I., Labour welfare fund, Act, etc. as may be applicable to the Contractor, the sub-contractors and their employees. The locations where Allied Manpower Management System (On-line system) has been implemented, the Contractor shall ensure necessary declarations and documents are provided in the system, as per the role of the Contractor envisaged in the system.

The Contractor should get in touch with the local HR/IR/ES&A teams for completion of Statutory compliances before start of the work. The contractor should also ensure that he provides correct and complete PF compliance data for a wage month in the format provided by the HR/IR/ES&A teams on or before 15th of the subsequent month, failing which penalty of 1% of

the value of the Invoice, per day of delay would be deducted from the Invoice raised. Further, the management will also have a right to suspend the work in case of delay in submitting the PF data.

All other compliances required by HR/IR/ES&A teams should also be provided as per timelines.

The Contractor shall fully indemnify and save harmless the Owner from and against all claims, demands, expenses, losses, liabilities, charges, actions, suits and proceedings whatsoever including claims under aforesaid Acts and laws which may be brought or made against the Owner, its Officers or servants by reason or in consequence of any matter or thing done or omitted or delaying the submission of data by the Contractor and/ or its sub-contractors and all costs, charges and expenses which may become payable by the Owner in respect thereof.

8. Performance Parameters & Deductions due to non compliance:

- 1. Job must be done as per our enquiry scope else will be treated as non compliance
- 2. In case job is not completed within the stipulated time or mutual agreement between user and party then LD @ 1 % of order value on per week basis subject to maximum 10 % of the order value will be deducted from the bills.
- 3. Lodging, boarding, travelling and local conveyance included in the quoted price.

9. Order Manager:

This order shall be managed by Mr. Pravin Kumar (Group Head - MMD) Payment Related Issue please call at 022-6717-3636 between 10 am to 5 pm from Monday to Friday For all finance related queries (Status of payment, clarification of deduction, queries in relation to invoice raised, balance confirmation, reconciliation) please call at 022-6717-3636 between 10 am to 5 pm from Monday to Friday. For speedy resolution of your queries, request you to log your requests/issues through this new number ONLY, and may refrain from calling up any other number." from Owner. You are requested to contact him/her for further queries related to execution.

10. Contract Performance Bank Guarantee:

Not applicable

WORK ORDER DETAILS

WORK ORDER REF: 6000051377

Version Number 0

11. Order of Precedence:

In the event of conflict between the provision of this order along with its attachments and annexure, the following order of precedence shall apply so that the conflicting provision(s) in the document lower in the order of precedence set out below shall give way to the conflicting provision(s) in the document higher in the order of precedence, namely:

- 1. Work Order (with 'Commercial Conditions')
- 2. Special Terms and conditions
- 3. General Terms and conditions
- 4. Technical Specification

12. Modifications to the General Conditions of Contract:

All other terms & conditions shall be as per the attached General Terms & Conditions-Service and Safety Terms and condition, which are an integral part of this work order.

13. Annexure

The following documents shall form a part of this Work Order:

- a) General Terms and Conditions- Supply and Service
- b) Safety terms and Conditions-Service
- c) Vehicle checking list Annexure-1

S.No HSN/SAC Code	Service Code	Short Description	Long Description	Qty	UOM	Delivery Date
10.10 998717	4079304	120MW Turbine RLA	120MW Turbine RLA Residual Life Assessment of Unit #3 120MW Turbine and its Accessories Areas to be covered: Main HP-IP & LP Turbine, Condenser, Oil Pipelines and Lube oil pipe Lines, Main steam pipe line, Drip Lines of Heaters. Necessary condition assessment studies to evaluate remaining life of all components subjected to CREEP AND FATIGUE viz. Steam turbine both (outer & Inner) casings, rotors, Diaphragms, Liners Blades, Steam turbine valves, Steam chest, nozzle chamber, nozzle segments, Casing Studs and bolts, Turbine bearings and thrust pads, TG coupling bolts, bearing pedestals, The Nos and location of sampling shall be appropriately chosen to be able to make reliable assessment. Condenser visual examination is to be carried out regarding the condition of the condenser with respect to corrosion due to water. The report	1	AU	30.06.2021

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WORK ORDER REF: 6000051377

Version Number 0

S.No	HSN/SAC Code	Service Code	Short Description	Long Description	Qty	UOM	Delivery Date
				shall indicate possible reasons of problems and solutions thereof. The Lube Oil pipe lines are to be visually inspected, NDT to be done at least in 05 Welding joints for each Lube Oil and De-metering to be done at specific places and condition assessment to be reported. Main steam inlet piping to casing on TG floor, CRH pipe line, HRH pipe line & Extraction pipe line to be done VE, DPT, MPI, MT, HB and Drip Lines De metering to be done at all bends of all the drip lines of all heaters, & randomly at few points in the straight lines & the condition assessment to be reported. A list of tests to be carried out on various parts is enclosed as Annexure-I. Party has provide the critical findings of HP-IP &LP Steam turbine casing, rotor & valve body from various NDT, the results of stress analysis through finite element computations and estimated life damage fractions due to fatigue and creep.			
10.20	998717	4080097	120MW Turbine connected Pipe line RLA	120MW steam Turbine connected Pipe line RLA	1	AU	30.06.2021
10.30	998717	4080096	120 MW LPBP Stop &control valves.	120 MW LPBP Stop &control valves.	1	AU	30.06.2021
10.40	998717	4080095	120MW HPBP &LPBP stop &CV servo motor	120MW HPBP &LPBP stop & control valve servo motor	1	AU	30.06.2021

For payment related queries please contact help desk No: +91 2267173636, Email ID: helpdesk-coe@tatapower.com

	Name of Company	Tata Power Com	pany Limited				
	Name of the Power Station	Jojobera Therma	l Power Plant Ur	nit 2			Activity/Description
	•	•				(Rs. In Lakh)	
SI. No.	ITEM	2015-16	2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	9
	Breakup of O&M expenses :			Actual			
(A)	Break-up of R&M Expenses	1217.56	1209.83	1520.82	2024.97	1266.30	
1	Consumption of Stores and Spares	108.34	174.74	122.50	253.97	151.23	Consumption of Store
2	Repair and Maintenance	1109.21	1035.09	1398.32	1771.00	1115.07	R&M Service Cost
(B)	Break-up of Employee Expenses	621.65	711.24	729.13	819.97	816.94	
1	Salaries, wages and allowances	592.06	678.79	676.76	712.84	712.93	Salaries, wages, allowances etc
2	Staff welfare expenses	4.28	2.45	2.90	4.91	12.47	Staff welfare expenses
3	Terminal Liabilities	25.31	30.00	49.47	102.22	91.54	Terminal Liabilities
(C)	Breakup of A&G Expenses :	389.00	518.16	592.08	547.52	628.27	
1	Insurance	146.77	116.55	93.37	57.08	113.80	Expenses towards Stock and Asset Insurance
2	Security	44.91	55.71	55.19	44.53	54.08	Expenses towards Security Manpower
	Administrative Expenses :						
3	Rent	0.00	2.20	13.09	8.91	7.55	Rent for Quarters
4	Traveling and conveyance	27.33	19.17	21.74	24.50	23.36	Expenses towards Vehicle Hire Charges, Official Travelling Expenses etc.
5	Communication expenses	2.43	1.91	3.20	2.99	4.63	Expenses towards Landline, Internet and Broandband
6	Advertising	0.06	9.77	6.98	17.07	22.68	Application fees, Advertising expenses etc
7	Miscellaneous Expenses	0.19	82.52	96.36	2.44	5.53	Other miscellaneous Head
	Sub-Total (Administrative Expenses)	30.00	115.57	141.38	55.91	63.74	
8	Other General Expenses	167.31	230.33	302.15	389.99	396.65	Expenses towards Auditor Remuneration, Consultan Expenses, Local doctors Fees, Pathological Test, Pantry, Courier, Rates and Taxes, Rent of Local Gue House, Printing, Provision, Stationery, Training, GST Audit Fees and other certification charges, R&R Giff etc.
(D)	Corporate office expenses allocation	1352.31	886.35	1228.45	1372.94	1011.79	Head Office allocation
(E)	Water Charges	953.74	410.13	436.38	450.37	440.48	Raw Water Charges
(F)	Ash Disposal Expenses	502.01	457.57	442.66	366.03	415.39	Ash Disposal Expenses
	Total O&M Expenses	5036.26	4193.28	4949.53	5581.79	4579.17	

	Name of Company	Tata Power Com	pany Limited				
	Name of the Power Station	Jojobera Therma	al Power Plant Ur	nit 2			Activity/Description
il. No.	ITEM	2015-16	2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	9
	Breakup of O&M expenses :			Actual			
(A)	Break-up of R&M Expenses	1385.53	1448.45	1511.38	1007.80	1285.17	
1	Consumption of Stores and Spares	125.47	157.81	183.08	194.37	146.19	Consumption of Store
2	Repair and Maintenance	1260.06	1290.64	1328.29	813.43	1138.98	R&M Service Cost
(B)	Break-up of Employee Expenses	621.65	711.24	729.13	819.97	816.94	
1	Salaries, wages and allowances	592.06	678.79	676.76	712.84	712.93	Salaries, wages, allowances etc
2	Staff welfare expenses	4.28	2.45	2.90	4.91	12.47	Staff welfare expenses
3	Terminal Liabilities	25.31	30.00	49.47	102.22	91.54	Terminal Liabilities
(C)	Breakup of A&G Expenses :	355.39	431.55	562.09	531.23	634.61	
1	Insurance	121.27	93.27	75.19	45.05	91.17	Expenses towards Stock and Asset Insurance
2	Security	44.91	55.71	55.19	44.53	54.08	Expenses towards Security Manpower
	Administrative Expenses :						
3	Rent	0.00	2.84	13.09	8.91	7.55	Rent for Quarters
4	Traveling and conveyance	26.43	18.61	22.25	24.16	23.20	Expenses towards Vehicle Hire Charges, Official Travelli Expenses etc.
5	Communication expenses	1.97	1.91	3.20	2.99	4.63	Expenses towards Landline, Internet and Broandba
6	Advertising	0.06	9.77	6.98	17.07	21.89	Application fees, Advertising expenses etc
7	Miscellaneous Expenses	0.19	79.87	94.48	2.39	6.21	Other miscellaneous Head
	Sub-Total (Administrative Expenses)	28.65	112.99	140.01	55.53	63.46	
8	Other General Expenses	160.56	169.56	291.70	386.11	425.90	Expenses towards Auditor Remuneration, Consultant Expenses, Local doctors Fees, Pathological Test, Pantry Courier, Rates and Taxes, Rent of Local Guest House, Printing, Provision, Stationery, Training, GST Audit Fees other certification charges, R&R Gift etc.
(D)	Corporate office expenses allocation	1404.67	886.35	1188.61	1341.57	1014.24	Head Office allocation
(E)	Water Charges	929.78	454.87	431.27	446.20	427.71	Raw Water Charges
(F)	Ash Disposal Expenses	466.74	451.58	449.32	371.17	406.31	Ash Disposal Expenses
	Total O&M Expenses	5163.77	4384.04	4871.79	4517.94	4584.99	

	R & M Activities at Jojobera
SI.	Job Description
1	O & M of AC System
2	O&M OF CONTROL ROOM AC System
3	Testing,calibration & certifi. of IMTES
4	Pressure Vessel Testing and Certification
5	Annual maintenance Contract of Pressure parts
6	AMC MachineTool
7	Online Auak Sealing jobs
8	Hring of Hydra
9	Service Engineer Charges - as & when required
10	Servicing of Journal Assembly XRP783/803
11	Annual Maintenance of Diesel Generator Sets
12	Refurbishment Jobs - as & when required
	RAPH main drive gearbox overhauling activity
	Filtration of Coal mill gearbox oil
	PVC Fills supply, gluing & replacement activity - as & when required
16	CT Basin(s) sealing and cleaning job
17	Performance Test of CT Fans - as & when required
18	Refurbishment activities of Strainer
19	Coal Flow Stabilization by removing chokage - as & when required
20	Vibration Analysis - of various equipment
21	Condition monitoring Activities
	Flow measurement of Pumps - as & when required
	Balancing job of impellers of various pumps
	Piping activities as & when required
25	Refurbishment of Air Handling Unit
	Piping jobs as & when required
27	Performing dirty and clean air flow test of coal mill
28	Fixing Ceremic pad insulation of turbine
29	Service charges for Coal mill damper and gate
30	Annual maintennace for Referigent Air Dryer
31	Dew Point Measurement Activity
32	Boiler Misc Jobs
33	Servicing of HP control valve actuator
34	RAPH air motor servicing job
35	Replacement activity of Venturi and inner cone assembly
36	Replacement activity of Classifier and inner cone assembly
37	Structural Jobs - as & when required
	Annual Maintenance of Fly Ash System
39	Coil replacement job (Economizer etc.) - as & when required
40	Minor Overhauling of Turbine & Gen - Schedule Outage
41	Foundation & Piping job - as & when required
	Turbine Condition analysis
43	Annual Maintenance Contract of Wet system
44	Consumables - as & when required
45	CFD Analysis activity in RAPH Ducts
46	Annual Maintenace contract of Coal Mill System
47	Annual Maintenance Contract for TG and Boiler
48	Material shifting activities - as & when required
49	Overhauling job of SILO system
50	Boiler Fan Overhauling Job
51	Plastic Refractory application activity in Boiler
52	Oil Condition Analysis

53	High pressure Water Jet Cleaning activity of Condenser
54	Overhauling of Clinker Grinder
55	ESP washout activity - as & when required
56	Welding activities
57	Ash collection,cleaning and disposal activity
58	Boiler Passes - shutdown activities
59	Rebabiting of bearing - as & when required
60	CW pipe inspection,repairing,painting,BFV changing activitities
61	Electrostatic Precipitator Washout during shutdowns
62	Condenser tibe cleaning activities
63	Insulation & cladding application activities at various locations
64	
	Repairing job recovery water pump parts
65	PA DUCT repairing activity
66	Eddy current testing activity
67	Oil filtration of ID, FD, PA fans
68	Gland Packing Renewal activities
69	High Pressure Valve Servicing - as & when required
70	Safety Valve Setting by Trevi Test
71	Tuning/ Supervision activities for ESP
72	Material handling by Crane - as & when required
73	AMC Split & Window AC
74	NAS level test of Lube oil
75	Calibration of Vibration Analyzer
76	Silo and recovery sump pit cleaning
77	Boiler Tube Failure Analysis activity
78	Servicing of Gates and dampers
79	VOITH coupling servicing activity
80	Refurbishment of Ash plant Bends
81	LP Piping Jobs
82	Primary Air Duct repairing job
83	Testing and certification of Lifting tools
84	Coal Mill overhauling activities
85	AMC of BTG System
86	Line strengthening job of new rack
87	Drum Deposit Analysis activity
88	Servicing for HCSD pump
89	Ash Transmitter Vessel Refurbishment activity
90	Rotor Balancing balancing activity
91	Compressor stage servicing job
92	Condenser tube cleaning and activity
93	ESP Repairing and Welding job
94	Calibration of Particle Counting Machine
95	Overhauling of machine tool
96	AMC Ash Handling System
97	Expert Supervision for Cuplock Scaffolding
98	Services for inspection and repair.
99	Slurry line replacement activity - as & when required
100	Maintenance contract for AC Packaged System
101	Refurbishment activity of coal funnel
102	Vibration & Oil Analysis
103	Drum Deposit Analysis
104	Safety Valve Servicing for 3 Years
105	Repairing of Coal Nozzle Tip Recondition
106	Refurbishment of hot air damper
107	Servicing of Turbiine SV&CV v/v actuator

100	Calib 8 mater complete for Vib Analysman
	Calib & mtce service for Vib. Analyzer
	CT basin Channel cleaning activity
	1200NB Butterfly Valve Servicing activity
	Upgradation of Seal air fan
	Bearing Rebabbiting activity
	ESP inspection and overhauling activitiy in shutdown
-	V BELT SPB 1410
	Thickness measurement
	Condenser tube eddy current test
117	Scaffold erection and dismantling
118	Sampling & Testing TRF Oil 3rd Year
119	Tx Oil Testing
120	Expert servic Air Comp ZH710P 1st Year
121	AMC for fire DG Set
122	Sky climber assembly repairing activity
123	Oil Analysis
124	Destaging of Boiler Feed Pump
	Upgradation of Vibration Analyzer
	Major overhauling of Turbine and generator
127	Fabrication, erection, alignement of structurals
128	Reconditioning of CT Fan Blades
129	Expert servic Air Comp ZH710P 2ND Year
130	Repairing of Coal Nozzle Tip
	To Cover Up Expansion Joint Internaly
	Repairing Of Expansion Joint Externally
133	Duct & Expansion Joint Corner Welding
134	Boiler Fins Welding
	Shielding
	Stub Joint Replacement
	Servicing Of 350Nb Globe Valve
	Servicing Of 300Nb Globe Valve
	Servicing Of 250Nb Globe Valve
	Servicing Of 200Nb Globe Valve
	Servicing Of 150Nb Globe Valve
	Servicing Of 100Nb Globe Valve
	Servicing Of 65Nb Globe Valve
	Servicing Of 50Nb Globe Valve
	Servicing Of 40Nb Globe Valve
	Servicing Of 25Nb Globe Valve
	Servicing Of Rhs Drum Safety Vv
	Servicing Of Lhs Drum Safety Vv
	Servicing Of Superheater Safety Vv
	Servicing Of Crh Safety Valve
	Servicing Of Hrh Safety Vv (Lhs)
	Servicing Hrh Safety Vv (Rhs)
	Servicing Of Soot Blower Safety V/V
	Servicing Of Erv-1538Vx.10W
	Servicing Of Lrsb
	Servicing/Overhaul Of Wallblower
	Refractory Application
	Application Of Cat9 Cement
	Checking Of Position Weld Erection Joint
	Lfet Of Pressure Parts
161	Cold Bend Fabrication
	Insulation Work

163	Annual Maintenance Contract For Fire Detection And Alarm System
164	Annual Maintenance Contract Of Intruder Alarm System
165	Calibration Activity of Instruments
166	Services For Honeywell Distributed Control System
167	Servicing Of Vibration Monitoring System For Turbine Protection
168	Repair And Maintenance Of Bhel Make Electronic Card
169	Service And Maintenance Of Secondary Air Damper Control Actuators
	Services Of Mil Control Valve
	Pi System Srp(Software Reliance Program)
172	Services Of Fisher Control Valve
173	Vms Servicing job
	Services Of M/S Cci -Lpbp And Hpbp Control Valve
	Annual Maintenance Contract For Field Inst
176	Annual Maintenance Contract For Field Inst Ash Plant
177	Services For Masibus Isas - Total Unit Alarm System
178	Srevicing Of Sertel Make Gps System
179	Testing & Certification Of Speed Probe
	Service Of M/S Mil Control Valve
181	Overhauling & Service Of Feedgate Cylinder
182	Testing & Certification Of Speed Probe Service
183	Service Of Gas Analysers - Oxygen, Sox, Nox By Original Equipment Manufacturers
184	Annual Maintenance Contract Of High Concentration Slurry Discharge Nucleonic Density Meter
185	Servicing Of Laptops
186	Annual Maintenance Contract For Main Plant Btg System
	Jointing & Testing Of Foc
188	Installation And Commission Of Alarm System
189	Comprehensive Annual Maintenance Of Internet Protocol Networking
190	Service And Maintenance Of SADC Actuators
191	Service And Maintenance Of Highway Addressable Remote Transducer Communicator Device
192	Calibration Of Master Calibrators
193	Annual Maintenance Contract Of Computer Assisted Coding System & Internet Protocol Systems
194	Provision For SOx NOx Remote Monitoring By Pollution Control Board
	Service Support For BHEL DCS
	Repairing Of Motorola Walkie & Talkie
	Plant Information System Management For Srp(Software Reliance Program)
	Milestone Licenses Upgrade (Care Pack)
	Servicing Of Dell Desktop Pc
200	Service And Maintenance Of Ultrasonic Flow Transmitter
	Annual Maintenance Contract For Coal Handling Plant Instrumentation system
202	Calibration Of Portable Flow Meter
	Service And Maintenance For Boiler Lfo (Diesel Oil) Flowmeter
	Analyser Card Repairing job
	Service Of Control Valves
	Erection And Commissioning Of Wt Programmable Logic Controllers
	Supervision Charges
208	
209	
210	Calibration Of Pressure Gauge, Pressure Switch & Pressure Transmitter
211	Servicing Of Low Pressure Bypass System
	Renewal of IT Service
	Annual Maintenace Contract For Calibration Belt Scale 7A & 7B
215	Annual Maintenace Contract For Calibration Belt Scale 7A & 7B Repairing Of Gas Analyser
215	Annual Maintenace Contract For Calibration Belt Scale 7A & 7B

218 Comprehensive AMC Of CACS (Computer Assisted Coding System) & Internet Protocol 219 Erection & Commisioning Of Flow Meter 220 Service Of Analysers By Original Equipment Manufacturers 221 Amc For Online Environment Data Transfer System 222 Operation , Maintenance & Service Of Secondary Air Damper Control Actuators	
220 Service Of Analysers By Original Equipment Manufacturers221 Amc For Online Environment Data Transfer System	
221 Amc For Online Environment Data Transfer System	
223 Supervison Charges	
224 Online Leak Sealing Jobs	
225 Erection & Commissioniing Of Auxillary Pressure Reducer Desuperheater	
226 Maintenance Of Flow Meters	
227 Erection And Commissioning Of Wt Progrmmable Logic Controller	
228 Annual Maintennace Contract Of High Pressure Appliances	
229 Consultancy Services For AERB License - Regulatory License	
230 Annual Maintenance Contract For Camera And Accessories	
231 Server And Monitor_Comp Amc_E Security	
232 Softwares_Comp AMC_Esecurity	
233 Repairing Of Gas Analyser	
234 Amc For Online Env Data Transfer System	
235 Service Of Analysers by OEM	
236 Insttallation & Readiness of PC Based Operating System	
237 Fabrication Erection Allignment And Maintenance Of Structurals	
238 Installation, Commission Of Fire Detection Alarm (FDA)Panel	
239 Annual Maintenance Contract For Hoist & Crane	
240 Annual Overhauling Charges Of Hoist & Crane	
241 Consumables For Hoist And Crane	
242 Annual Maintenance Contract Of Emerson UPS System.	
243 Annual Maintenance Contract Of UPS System For CCTV	
244 Testing Of Lightning Arrestor In Transformer	
245 Comprehensive Contract For APC/10KVA UPS System	
246 Calibration Of Electrical Instruments	
247 Annual Maintenance Contract For Siemens Variable Frequency Drives	
248 Annual Servicing Contract Of Sertel Make GPS System	
249 Overhauling and Repairing Of Transformers	
250 Grating Fabrication & Erection Of Fibreglass Reinforced Plastic	
251 FRP Grating Fabrication & Erection	
252 Supervisory Charges For Retrofit Of M/S ABB Breaker	
253 Repairing Work For PCB Equipment In Megger	
 254 Annual Service Contract For ESP Transformer & Rapper Controller 255 Annual Overhauling Contract For Generator Transformer 	
255 Annual Overhauling Contract For Generator Transformer 256 Annual Service Contract For M/S Auma Actuators	
257 Refurbishment Charges For Cable Tray	
257 Returbishment Charges For Cable Tray 258 Annual Service Contract For DILO Machine	
259 Refurbishment Expenses Of 1.25MVA Transformer	
260 Repair Expenses Of Insulation Resistance Tester	
261 Grass Cutting at Various Locations	
262 Overhauling Services of 10MVA Unit Auxillary Transformer	
263 Contract For Electrical Services During Annual shutdown	
264 Annual Overhauling Contract For Lt Motors Less Than45Kw	
265 Annual Rewinding Services For Lt Motor <45Kw	
266 Annual Service Contract For Lt Motors >45 Kw	
267 Annual Maintenance Contract For Digital Video Recorder	
268 Contracts For Scope Instruments - Testing Instruments	
269 Annual Service Contract Of 6 Klph Oil Filter Machine	
270 Annual Service Contract Of 1.2 Klph Oil Filter Machine	
271 Annual Service Contract Of 225 Lph Oil Filter Machine	
272 Electrical Services During Annual Shutdown	

	Expert Services For BHEL Digital Video Recorder System
	Annual Contract For Operating Of Lift
	Overhauling Of M/S GE Make Breaker
	Liquid UI For Android Subscription Lice
	Calibration Of Testing Equipments
	Services For Lt Motors >45 kW
279	Electrical Firm Services Of Electrostatic Precipitators
280	Electrical Optional Services Of Electrostatic Precipitators
281	Charges For 6.6kkV Sulphur Hexafluride Breaker Services
282	Overhauling Expenses For HT Motor
	Expenses For Testing Of Transformer Oil
	Repair Expenses Of Caldyne Battery Charger
	Testing Of Transformer Oil
	Repair Of Afcoset Battery Charger
	RSO Test Of 120 MW Generator Rotor
	Electrical Firm Services of ESP
_	Testing Of High Voltage Breaker
	Online PD Measurement of HT Equipments
	Partial Discharge Measurement of Generator
	Services of Air conditioning System
	Spare Supply For AC System
	Overhauling And Repairing of Transformers
	Repair Of 6.6kV 277 kW HT Motor
	Annual Maintenance Contract for M/S Hirel UPS
	Repair Of Relay Cards In ESP/Chargers
	RFI Survey of HT Equipments
	Conveyance Charges
	Installation & Commissioning Of 24V Battery Bank
	AMC Of Electrical Maintenance
	Services For Rotork Make Actuator
	Maintenance Of Lighting System, Normal Emergency & Dc Area
	AMC Of Electrical Maintenance For Coal Handling Plant
	Annual Maintenance Contract Of Thyssen Lift.
	Annual Maintenance Contract Of Otis Lift Of Jojobera Power Plant
	HT Motor Overhauling
	Electrical Maintenance Main Plant
	Annual Shutdown Support Service
310	EHV Services Main Plant Unit
	Lighting Maintenance Of Main Plant
	Miscalleneous Electrical Services
313	Consultancy Expense For Generator Root Cause Analysis
	ASD Support Service
315	EHV Services Main Plant
	Repair Of Caldyne Battery Charger
	Annual Maintenance Contract Of Electrical Maintenance
318	Commissioning Of 24V Battery Charger
	Load Trial Of HT Motor
320	No Load Testing Of HT Motor
	Services For Hoist & Crane
	Refurbishment Of Cable Tray
	Fabrication Of Bushing Stand
	Provision For Consumables
	Fire Hazard And Risk Assessment Study
	Gasket Replacement Charges In Generator Transformer
	AMC For Coal Handling Department Electrical Maintennace Department
JZ1	Minio i or obai handing Department Electrical Maintennace Department

200	ANAC Of D-44 Ob
	AMC Of Battery Charger
329	AMC For Operations And Maintenance Of Coal Handling Plant Electrical Maintenance Department
	Hiring Of Hydra
331	Retro_Fitting Of 415 V Breaker
	Failure Analysis Of 120Mw Generators
333	Expert Services For BHEL Make Digital Automatic Voltage Regulator
334	Repairing Of BHEL Make Digital Voltage Regulator Cards
335	Disposal Of Lamps
336	Replacement Of Chimney Light
337	Amc For Drive Siemens Make
338	Contracts For Scope Instruments
	Overhauling Of GE Make Breaker
	Repairing Charges Of Card
341	Commissioning Of Reducdant Load Shedding
	Amc Of Electrical Maintenance For Chp
	Online Analysis Of Motor
	Testing Of Electrical Equipments
	Testing Of 120Mw Generator
	Refurbishment Of 1.25Mva Transformer
347	Bhel Supervisory Servises For Generator
348	Supervision Of Commissionign Of 800Ahbattery Bank
349	Commissioning Of ESP Transformer
350	Services For 120MW Generator Stator Unloading
351	Expenses For DG Sump Pump
352	Repair/Replacement Of Chimney Light
353	Third Party Inspection Services 1St Year
354	6.6Kv SF6 & MOCB Breaker Services
355	Main Plant Electrical Maintenance
356	Complete Overhauling Of Hoist & Crane
357	220K M/S CG Breaker Overhauling
358	Accomodation Charges For Expert
359	Supervisory Charges For Retrofit Of Abb Brk.
360	Repairing & Rewainding Of Ht Motors
361	Testing Of 120Mw Generator Rotor
362	Installation & Commissioning Of 24V Battery Bank
363	Under Ground Cable Laying
	Installation & Commissioing Of High Mast
	Testing Of Hoist And Crane
	Testing Of 120 Mw Generator Stator
367	Repair And Calibration Of Omicron Test Kit.
368	Gasket & LV Turret Replacement
	Main Plant Electrical Maintenance
370	Replacement_C_Guard,Selet.Tape & Header
371	Health Inspection Of 90 T EOT Crane
	ICT Inspection Charges 220/132Kv
	Services For Root Cause Analysis Of LA & Bushing
	Complete Overhauling Of 220/132 KV Interconnecting Transformers
	BHEL Supervisory Servises
	Annual Maintenance Contract Of Battery Charger
378	Charges ,Moisture Measurement ,Ppm Meter
	Transient Surge Monitoring By Micrscnd Recorder
380	Services For Hoist & Crane
381	Pan India Transportation - Motor Transportation
382	Annual Maintenance Contract Of Dynamic Voltage Restoration
	J. H. H. B. H. B. H. B. J. B. J. H. H. B.

383	Service Charges For IcCTRevival
384	Support Services For Revival Of ICT
385	Root Cause Analysis Of Bushing Failure Of ICT Transformwe
386	Bushing Overhauling & Replacement Of 10MVA
387	AMC For V/F Drive Siemens Make
388	Contract For Operating Of Lift
389	Installation Of 1600A Breaker
390	Installation Of 2500A Breaker
391	Installation Of 3200A Breaker
	Rewinding & Testing Of Ims 220V, 14.5Kw
393	Transformer Oil Filtration
	Repairing Chrges Of Card
395	AMC For Hirel UPS
396	Calibration Of testing Equipments
397	Overhauling Of 440V Lt Breakers
398	Repair & Rewinging,755Kw ,6.6Kv Ht Motor
399	Supervision, Installation And Commission
	Generator Testing
401	AMC CHP Electrical Maintenance
402	6.6kV Motor Bearing Replacement 225 kW
	220V Battery Bank Commissioning
	Generator Testing
	Replacement Of Worm Shaft And Worm Gear
	Turbine Generator Overhead Line Tightness
	Conveyance Charges For Service Engineer
	Gasket Replacement
	ICT Internal Inspection By Robot
	ESP Card Reparing Bhel Make
	Root Cause Of Bearing Analysis
	Hydrualic Tesiting Of CO2 Cylinder
	Certification Of Generator CO2 System
	Service Charges For Battery Charger
	Services-Mobileapp Saamarthya Baseds app
	O/H Services For LT Motors Less Than 45KW
	Automatic Voltage Regulator Maintenance
	HT Motor Overhauling Charges
	Overhauling Of 145KV ABB Isolator
420	Charges For Supply Erection Of Instrument Earth Pit